



Inver Grove Heights City Council
Monday, August 22, 2022 at 6:00 PM
8150 Barbara Avenue, Inver Grove Heights, MN 55077

AGENDA

NOTICE TO RESIDENTS: Individuals may submit written public comments in advance of the meeting by emailing comments to Rebecca Kiernan (rkiernan@ighmn.gov). Comments received prior to 4:00 p.m. on Monday, August 22, 2022, will be provided to the Council at or before the August 22, 2022 meeting.

1. Call to Order

2. Roll Call

3. Presentations

4. Consent Agenda

All items on the consent agenda are considered routine and have been made available to the City Council at least two days prior to the meeting; the items will be enacted in one motion. There will be no separate discussion of these items unless a Councilmember or citizen so requests, in which event the item will be removed from this agenda and considered in normal sequence.

- A.** Approve minutes of the July 18, 2022 City Council Work Session
- B.** Approve minutes of the July 25, 2022 City Council Meeting
- C.** Approve minutes of the August 12, 2022 City Council Canvassing Board Meeting
- D.** Approval of Disbursements
- E.** Approval of Personnel Actions
- F.** Approval of Massage Therapist Licenses
- G.** Accept the Dakota County Regional Roadway System Visioning Study Update
- H.** Accept Proposal and Enter Contract for Engineering Staff Augmentation Services with Bolton & Menk, Inc.
- I.** Approval of Easement Agreements for Argenta Trail Drainage Improvement Project (Project No. 2020-12)
- J.** Award Contract and Approve Budget for City Project No. 2020-12 - Argenta Trail Drainage Improvements
- K.** Contract Amendment for Trail Connection Design Services for Vista Pines Park
- L.** Accept Proposal and Enter Contract with Kimley-Horn & Associates, Inc. for the Southern Sanitary Sewer Study Technical Update

- M. Approval of Final Plans & Specifications and Authorization to Seek Bids for South Valley Park Redevelopment Project
- N. Acceptance of January 1 - July 31, 2022 Donations and Sponsorships for the Parks & Recreation Department

5. Public Hearing

6. Regular Business

- A. 3rd Reading of Ordinance Amending City Code Related to the Discharge of Bows and Arrows
- B. Resolution Adopting Designated Bow Hunting Area Map
- C. 2nd Reading of Ordinance Amending City Code Chapter 5, Section 12 Related to Unnecessary Noise
- D. 1st Reading of Ordinance Amending City Code Title 4, Chapter 13 Related to Rental Licenses
- E. Consider Approval of Rental Licenses
- F. Funding for Trail Extension at Seidl's Lake Park
- G. Continued Discussion of Utility Rate Study - Water Rates

7. Public Comment

Public comment provides an opportunity for the public to address the Council on items that are not on the agenda. Comments will be limited to three (3) minutes per person.

8. Mayor and Council Comments

9. Adjourn

This document is available upon a three (3) business day request in alternate formats such as braille, large print, audio recording, etc. Please contact Rebecca Kiernan, City Clerk, at 651.450.2513 or rkiernan@ighmn.gov.

INVER GROVE HEIGHTS CITY COUNCIL WORK SESSION
MONDAY, JULY 18, 2022. 6:00 PM - 8150 BARBARA AVENUE

1. Call to Order: The City Council of Inver Grove Heights met in person for a Work Session on Monday, July 18, 2022. Mayor Bartholomew called the meeting to order at 6:00 p.m. The Pledge of Allegiance was recited.

2. Roll Call: Present In-Person: Mayor Bartholomew; Council Members; Piekarski Krech, Gliva, Dietrich, Murphy; City Administrator Kris Wilson, City Attorney Bridget McCauley Nason, Deputy City Clerk Katie Malott, Police Chief Melissa Chiodo, Fire Chief Judy Thill, Public Works Director Brian Connolly, Finance Director Amy Hove
Others Present: (Via Zoom): Stewart Gary, Citygate; Sam Mazza, Citygate. (Present In Person): Jacob Stromberg, AE2S

Due to a technical issue the Council will be beginning with Agenda Item 3C.

3. Discussion Items:

C. Hunting Ordinance Revisions - Update on Resident Input

Police Chief Melissa Chiodo provided the following update:

Process Review:

- June 13th 2022. 1st Reading of Ordinance 5-6-1: Use of Firearms and Bows and Arrows.
- July 12, 2022. Met with residents (6) that live and hunt in the city.
- July 25, 2022. 2nd Reading of the Ordinance.
- August 8, 2022. 3rd Reading of the Ordinance.

This is under discussion due to changes in land use, population, resident feedback/concerns, safety survey results, police staff time/resources used, and liability to the city.

Recap of proposed ordinance changes:

- Target practice or hunting activities on an individual parcel five or more acres in size, and
- Parcel must be in the geographic portion of the city designated on the map, and
- Hunter must carry written permission of the property owner with specific dates noted, and
- Hunter must be licensed and follow all DNR rules and requirements.

Options:

1. (From the 1st reading). Target practice or hunting activities on an individual parcel 5 or more acres in size for landowner/resident or those who are given permission by landowner.
2. Target practice or hunting activities on an individual parcel 2.5 or more acres and limited to the residents/owners of that property, and
3. On an individual parcel that is 5 or more acres, landowner may give anyone they choose permission to hunt that property.
4. Target practice or hunting activities on an individual parcel 2.5 or more acres in size, limited to residents/owners of that property, and
5. On two contiguous properties that are a combined 5 acres or more with the smaller of the two lots no less than 2.5 acres and are residents of one of the two contiguous properties.

Councilmember Murphy questioned if the following allowable activities for hunting was in the 1st reading regarding being well engaged in deer management activities pursuant to Council resolution specifically authorizing deer management.

Police Chief Chiodo replied that was in the 1st reading and could still be left in. Staff will be meeting with the Game Warden and a DNR representative to discuss wildlife management.

Councilmember Piekarski Krech asked if residences on the river side were all 5 acre lots.

Police Chief Chiodo responded some were 2.5, 3 acres, or more.

Councilmember Dietrich mentioned having heard from constituents, Option #2 was preferred and what she would advocate for. She inquired whether there would be less stress on the department.

Police Chief Chiodo replied she did not see concerns with that option. If it were to become a safety issue, it can be revisited. She responded that the only thing they would have to do would be if a complaint were received about someone hunting illegally.

Councilmember Murphy said there would still be restrictions on how close to homes and buildings, even if it was for 5 or 2.5 acres.

Police Chief Chiodo replied that was correct. That information is located on the DNR website. The only thing staff added was working with Park and Recreation to add 200 feet within any kind of park.

Councilmember Murphy favored Options #2 or #3 but was learning more towards Option #2.

Councilmember Gliva felt it was a good balance and good to listen to resident feedback.

Police Chief Chiodo stated residents suggested Option #2.

Mayor Bartholomew questioned if the Council was fine with Option #2 for the 2nd reading. If input/concerns are received, they could be discussed at the next meeting.

A. Presentation of Fire Department Service Assessment by Citygate Associates

City Administrator Kris Wilson discussed a final report that would be given by Citygate Associates regarding their analysis of the fire department services. She mentioned that Stewart Gary and Sam Mazza were both in attendance via Zoom.

Stewart Gary, Citygate, presented the Fire Department Services Evaluation final report:

Policy Choices:

- There are no federal or state laws in the U.S./State of Minnesota governing minimum staffing levels, response times, or outcomes.
 - If fire services are provided, state and federal safety regulations apply.
- Level of fire service is a policy decision.
 - Communities have the level of service they can afford/choose to fund.
 - May not be the level of desired service.

Fire Service Deployment. Weight or speed of the response:

- Speed refers to the initial response resources deployed across a jurisdiction to mitigate routine every day small emergencies.

- Weight refers to multiple unit resources when needed. In the case of Inver Grove Heights, the entire fire service would show up to a serious multi-unit event.

Overall Summary:

- The department is sufficiently organized to accomplish its mission to serve a diverse population over a large suburban service area.
 - The department is using best practices, when possible, committed to continuous improvement.
 - Quality apparatus, equipment, training, and fire prevention programs.
 - Have positive leadership and use of paid on call volunteers (POC's).
- Department provides quality services despite service capacity and staffing constraints.
 - Challenged with transition from all volunteer/POC.
 - Like all communities, stressed by changing workforce economics that do not necessarily allow people to meet all training and safety standards.
 - As a community grows, the normal evolution is all volunteer/POC staffing, combination full time and volunteer/POC staffing, full time career staffing.
 - POC departments are under stress. Continue to use volunteers while they are available.

Overall Strengths:

- The city has made a significant investment to improve fire service delivery.
 - Chief officer career leadership, some small full time response personnel in the duty crews, received the SAFER Grant for the second duty crew, fiscally and operationally training and supporting the PSU firefighter program.

Further discussion:

- Critical Emergency Timelines
- Outcome Goals
- Risk Assessment: Looks at people, size of service area/types of buildings, economic resources, critical facilities, cultural/historic resources, natural resources.
 - Hazards Evaluated: Building fire, vegetation/wildland fire, medical emergency, hazardous material release/spill, technical rescue, marine incident, aviation incident.
- Risk Analysis was rated per hazard and fire station area (Stations 1, 2, and 3) from low to high.
 - The city is at a high propensity for medical emergency incidents.
 - Moderate risk for building fire, hazardous materials, technical rescue, marine incident.
- Service Demand. Looks at number of incidents by year (last three years).
 - Gradually increasing even in the wake of the Pandemic and shelter in place.
 - By station by year: Fairly low with Station 1, increasing in Station 2 and 3 areas.
 - Number of incidents by year by incident type: Most is EMS, then other, with fires coming in third.
 - Incidents by month by year: More activity in the pleasant weather months.
 - Incidents by day of week by year: Slightly higher on weekends.
 - Incidents by hour of day by year: Begins by 9-10:00 a.m. until about 8:00 p.m., it starts to taper off around midnight.

The City of Inver Grove Heights needs a full-time fire department 24/7/365.

- Simultaneous incident activity: 1 or more simultaneous incidents: 10.09%, 2 or more simultaneous incidents: .74%.

- Simultaneous by station: More in Station 1 and 3 areas.
- Response Time Goals: If the Council desired suburban level outcomes, keeping the fire near the level of origin, assisting patients:
 - First responding units would arrive within 8 minutes of receiving the 911 call.
 - Multiple unit force would arrive between 11-12 minutes from receiving the 911 call.
 - Need to have 14-15 personnel to keep a house fire from destroying a house.
- If rural level outcomes would be the goal:
 - First responding unit should arrive within 11-12 minutes from receiving the 911 call.
 - Multiple unit force would arrive within 15-16 minutes of receiving the 911 call.
- Response Time Performance over the last three years:
 - From 911 first unit arrival, there at 11:43. The goal in a suburban/urban area is 7:30.
 - Happens with more POC staffing events and/or the single duty crew would have to go anywhere in the city.
 - For first unit travel, a best practice in suburban/urban area is 4:00. City travel times are 7:46.
 - With two duty crews, travel and overall response times will improve.
- Deployment
- Road Miles Travel Time Coverage
- Paid on call (POC) Staffing Capacity:
 - Prior to 2016, POC firefighters were used for emergencies for everything.
 - January 2016 began the three-person duty crew model. There were 40-50 POC available when paged. Later transitioned to one full time captain and two POC firefighters (mid-2019).
 - Geographically, single duty crew was insufficient to facilitate suburban level outcomes in most of the city.
 - POC personnel was climbing since 2014, now declining.
- POC Staffing History Summary:
 - POC personnel provides value. 29% of all incidents. Average response is 5-6 POC personnel. Best practice to control a house fire is 14-15 total personnel. 2 duty crews with the balance of staff still having to come from POC.
- POC Response Capacity:
 - POC still fills out some of the duty crew shifts today. Work by requirement, four 4-hour daytime shifts, one 8-hour overnight shift, daily slots. Total of 20 hours per month. A second duty crew was added in March 2022.
- Deployment Findings:
 - Service demand increased 51% over the three-year study period.
 - Simultaneous incidents occur 10% of the time, primarily in Stations 1 and 3.
 - Call processing performance from the Regional Communications Center is sluggish. This is common in other regional centers.
 - Aware that work needs to be done to get call processing down closer to national best practice recommendations.
 - First unit call to arrival performance of 11:43 is 56% slower than suburban best practice goal. Expected to improve with the second duty crew.

- POC duty crew is critically needed to get enough firefighters to a fire.
 - There were 16 total multiple unit incidents over the three-year study.
 - Six fire fatalities within the last five years.
 - There is a structure fire issue to staff for.
- Current station locations cover about 70+% of the road network.
- Stations 2 & 3 are the best locations for two duty crews.
 - All three facilities are unable to house overnight staffing.
- Long term goal should be to get first unit travel coverage to the population density in the shortest time.
- Duty Crew shift vacancies impact full time administrative staff capacity to backfill.
 - 1,188 hours, 181 shifts over the last 36 months, equal to 1FTE for duty crew shift backfill.
 - 62 duty crew shifts over the last 12 months were backfilled by full time response personnel on overtime.
 - With current duty crew total headcount, are unable to fill 248 hours of duty crew staffing slots.
 - Have a high quantity of chief officer coordination to get the duty crew shifts consistently.
- Second duty crew expected to provide more equitable coverage across the city and improve multi-unit staffing.
 - Current economic model has no extra career staffing to backfill.
 - Do not have a 24-hour command officer.
 - Two chiefs share the duty from home 24/7/365.
 - Two battalion chiefs share night/weekend availability. They have their own availability problem.

To note: Other Minnesota clients are finding that senior POC members do not want to take the training and certification for the responsibility of command chief officer.
- Two 24-hour, three-person duty crews, supported by eight immediately available POC's and one available chief officer, is the minimum service model recommended.
 - Values to be protected, size of the community, increase to annual service demand, simultaneous rate.
 - Does have structure fires where there is a need for 14-15 personnel.
- Deployment Recommendations:
 - First unit should arrive within 7:30 minutes, 90 percent of the time, or measure two miles of a staffed fire station.
 - Recommends Council adopts and works with staff through budget measures.
 - Adopt a split goal, if you are beyond the range of a staff fire station, the first due unit would be expected to arrive within 11:30 minutes, 90 percent of the time.
 - With zoning, this city is at a minimum, basically two different communities.
 - Recommends funding second 24-hour duty crew permanently when grant expires.
 - Longer term:
 - Provide a full-time battalion chief for each shift.
 - Plan for third 24-hour duty crew at Station 3.
 - Plan for at least one relief firefighter position for each shift.

- Administrative Support Staffing Findings:
 - Have two full time chief officers to oversee a 57-person organization.
 - Both chief officers, week in and week out, work well past a 40-hour week.
 - Consider adding one additional 40-hour chief officer in the near future.

To note: For this study, at times staff was a little slow to respond and work with the company. There were evening emails and phone call communications.

 - The city is asking two people to manage a 24/7/365 paid on call operation. That is a commitment. This represents what they call a single point of failure. If either one is out, there is no backfill for absences.
 - Need to start discussing a succession plan.
- Apparatus/Facilities Findings:
 - Do not have a reserve engine. Use a front-line ladder truck or water tender when maintenance is needed.
 - There is one shared battalion chief vehicle for two paid on call battalion chiefs.
 - One shared fire prevention vehicle.

To note: This is very thin; the minimum necessary equipment to maintain.

 - Station 3 looks like a fire station on the outside, built to accommodate paid on call responders. There is no living or sleeping quarters in that building.
 - Long term recommendation would be to add one reserve structure fire engine.

Councilmember Piekarski Krech asked how support was provided in the position as a POC and what type of support could be provided to maintain POC members and recruit new ones.

Mr. Gary replied that Council and community appreciation goes a long way. The Council and City Hall executives, working with the business community to help them understand that to maintain a lower tax rate and run a combination fire department, there is a need to recruit paid on call volunteers and would need work release. It's challenging to have an employer who expects people be present 40+ hours per week.

Fire Chief Judy Thill stated there is a year long Fire Academy to get the POC through. Four hours in the day or four hours a night. It is a time commitment for training, calls, duty crews. With today's workforce, POC availability is shrinking due to the time commitment. There is no time due to:

- Two income families
- Working longer hours on their regular job or working two jobs
- Some may have decided with COVID, that family time is more important than volunteering for the local fire department

The biggest factor heard when people quit is the time required to do the job. They are down to about as low as they can for POC requirements. There is a good pension; they need to get to at least seven years for the pension. There are various types of leaves and light duty.

Councilmember Piekarski Krech said they haven't changed what they have been doing, they keep saying the POC is shrinking.

Fire Chief Thill replied a lot has been done.

Councilmember Piekarski Krech felt the changes made haven't helped the problem. She asked if other businesses have come up with ways to support employees. She felt they lost a lot with the federal law

that they have to work overtime and can't be a city employee. She felt maybe representatives need to change that. She questioned if they have worked with employers to allow leave for an emergency fire.

Fire Chief Thill replied the duty crew saved 5-10 senior firefighters, keeping them on longer. Some said there were not going to work duty crew. They had to change to keep up with the calls they had when the captains were added. She felt it was more coincidence they continue to lose firefighters. Different things have been tried such as working with the firefighters to find what works best, new things are added. They are working on programs and trying to find unique ways to recruit people and working with the school. Last year they made conditional job offers to 16 and ended up with 5. Once learning the time commitment, they decided they didn't have the time for it. Getting firefighters to work weekends is another challenge with many people going up north or out of town to cabins. They are trying new things that other departments have not done.

She addressed businesses stating the only large business they draw from is Flint Hills. There is a leave program the city does. There are several firefighters that have gone off State Patrol training, there is a special work release to encourage them to come back after that year to try to retain them.

Mayor Bartholomew mentioned he has questions regarding the economic impact and how it would be approached with the budget.

Councilmember Piekarski Krech questioned the huge increase in service demand and how that compared to other cities. She is on the DCC Board. When comparing to other cities, it seems Inver Grove is much different than what other cities are having for calls.

Mr. Gary replied it was their experience in Minnesota and other western states that a year over year increase was experienced for everybody.

Councilmember Gliva referenced the section addressing call processing needs needing to increase.

Mr. Gary replied that the 911 Dispatcher needs to find out the primary problem, verify the location, call back number, and ask a series of questions to determine who to send and how fast to send them. Most 911 centers deal with a high volume of non-emergency calls. Many call centers have deviated from asking if its life and death to sending police, fire, and EMS now. Procedures and training need to be improved. There are about 90 seconds in a life/death emergency, too many centers get the entire story and then send instead of getting the primary story, so the unit knows where to go and receives the remainder of the information enroute.

Councilmember Gliva questioned who trains for that.

Sam Mazza, Citygate, replied the governing body of the dispatch center, customers served (Police and Fire Department), should be working with the management of the center to make them aware of the problem and identify factors to come up with solutions.

City Administrator Kris Wilson noted that the city is part of a county wide dispatch center. There is a member from each of the elected jurisdictions on that board. She herself serves on the executive board made up of city managers and administrators. The organization shares statistics with the city on a monthly basis. That information isn't always the same things that Citygate is measuring.

Councilmember Piekarski Krech mentioned the organizations statistics show goals are being met while Citygate says differently.

City Administrator Wilson pulled up information from June stating their statistics were for ECHO-level calls which are the most severe. ECHO calls make up 2.1% of all calls.

Mr. Gary replied if reporting an average measure, average reports only the middle of the data center. Best practices nationally measure 90% of all serious occurrences.

Councilmember Piekarski Krech thought their statistics were ring to ding.

Fire Chief Thill replied there is a County Fire Chiefs Association that works with Dakota 911. They are aware of some of their processing times and lengths. A new program has been started along with looking at other ways to try to improve times.

Councilmember Murphy referenced the time of 4:27 for all calls, not just ECHO-level. The national standard is 1:30. He asked if improving our departments time of 4:27 would impact how the fire department operates.

Mr. Gary replied they measure an incident that is closed out and reported as one of many fires or emergency medical types. If it is a fire and EMS event, best practices are to get it dispatched or better, 90% of the time.

City Administrator Wilson stated the full report has been provided to the Council, it is foundational. It will be placed on the Consent Agenda for next weeks meeting to be formally received by the city.

Mayor Bartholomew mentioned that high level issues are going to be the long-term planning for FTE's and what the preparation and roll out would be.

The Council went to a brief recess at 7:27 p.m. Council was back in session at 7: 32 p.m.

B. Comprehensive Utility Capital Planning & Rate Study Progress Update

City Administrator Kris Wilson introduced the first report from Advanced Engineering and Environmental Services (AE2S) who was hired to conduct a comprehensive utility rate and connection fee analysis. They would look at how utility rates are charged, if they were fair and equitable among the different types of utility users, and if they are bringing in sufficient revenue for capital improvement needs and utilities. This is the first report of at least three for the Council. After the presentation, the Council will be asked to take action on utility rates for 2023.

Public Works Director Brian Connolly mentioned that AE2S would be providing an update on the Comprehensive Utility Capital Planning and Rate Study effort. They would be providing the first of three updates to the Council. The update would discuss the following:

- Introduction
- Rate Study Goals
- What the existing Utility Rate Structure looks like.
- User fees for sewer, water, and stormsewer rates, connection fees, and various development fees associated with the three utilities.
- Discuss the Council's preferred utility rate philosophy.
- Gain clarity from Council and direction for Staff and AE2S as the process moves forward.

Jacob Strombeck, AE2S, stated they are a water specialty engineering firm with financial experts on staff who focus on utility rates, water, wastewater, and stormwater.

Agenda and Goals:

- Sewer Rates/NWA: Fixed charge and surcharge in the northwest area (NWA)
- Water: Tier pricing structure, issues with non-residential irrigation rates, senior discount program
- Connection Fees: Philosophy, NWA vs. Non-NWA
- Stormwater Rates

Overall Project Goals:

- Help establish fair and equitable rates for water, sewer, and stormwater utilities.
- Develop rate structures that are reasonable to administer and easy to articulate and explain to policymakers and customers.
- Capital planning. Work with the Public Works Director and team to look at current infrastructure needs, project them forward, and make sure they are part of the overall financial plan.

Utility Challenges:

- Current stormwater rate structure is complex and hard to articulate.
- Growth in the NWA was slower than projected, caused ratepayer inequities and surcharging.
- This is always how we have done it type approach. Make sure to give a solid detailed look.
- Helping to quantify long time renewal replacement.
- SWOT Analysis was performed (Strengths, Weaknesses, Opportunities, Threats)
 - Connection fee complexity, capital planning, equitability, reserve funding.

Sewer Rates: Overview:

- Benchmarking. Showing typical residential. The city is in the middle of the structure.
- Different rate between the NWA and customers outside of that area. Generally, rates are consistent across all user classes. Same applies to the NWA but there is a surcharge applied. To note: The fixed charge of \$40.00 per gallon or \$1,000 per quarter includes the first 2,000 gallons per month.
- For the city, the structure is appropriate.
- Key Issues:
 - NWA surcharge.

Councilmember Dietrich referred to the middle of the chart asking if that included the northwest area, and if not, where the NWA would fall.

Mr. Strombeck replied the rate was likely not reflective of the NWA. He addressed where they would fall on the chart with the NWA saying it was a few dollars more and would be closer to Plymouth or Richfield, further down the chart.

Councilmember Piekarski Krech believed the NWA was included.

Mr. Strombeck replied everyone is benchmarked on the same metric.

- A Cost-of-Service Analysis was done.
 - Industry standard is 5-10%. Non-NWA is within the 10% range. Struggle is the NWA due to the surcharge.

Councilmember Piekarski Krech asked if they were subsidizing public institutional and industrial.

Mr. Strombeck replied that group is paying for 6,000 gallons in the fixed charge even though they don't use it causing the residential number to go higher.

Mr. Strombeck stated the surcharge causes some of the inequity and was put in place to offset revenue shortfalls with the connection fees. It was determined there was no concrete basis for it.

Councilmember Piekarski Krech disagreed. She said the concrete basis was when the northwest area was opened up for development, it was to pay all of its costs. To develop the area, the costs need to be paid by that area. The rest of the community was developed already.

Mr. Strombeck stated his comment was more about the surcharge value. He agreed with the plan to fully fund the NWA, it's the extra \$11.00 or \$2.00 per 1,000 gallon and the justification, whether inside or outside the NWA.

- The NWA receives the same service as others. The surcharge generates about \$60,000 in revenue. The annual payment is just over \$1M annually with 14 years left. The surcharge only covers about 6% of the total payment.
- Addressing the fixed charge inequity. Adds complexity to the billing structure.

Sewer Rates: Potential Solution:

- Eliminate surcharge over time. Given that it doesn't generate a lot of additional revenue.
- Flow and Fix Charge. The 2,000 gallons per month. Leave this alone, look at strategies to eliminate it, try for 1,000 instead, or eliminate it and charge for the sewer and water used.

Councilmember Gliva asked if the minimum was common.

Mr. Strombeck replied almost all utilities will have some form of payment as a fixed charge. As a utility, they want to be at least 30-40% of revenue coming in from a fixed charge. A fixed charge is common, most neighboring communities have it.

City Administrator Wilson stated she had done some checking on the chart referenced earlier where the City of Inver Grove Heights was shown to be in the middle, it is with the non-NWA rate.

City Administrator Wilson asked if it was common to include some baseline rate of water in the fixed charge.

Mr. Strombeck replied that was less common. A lot of industries were going more toward just a fixed charge and then charge for all commodity, water use.

Councilmember Murphy asked what the value was without the NWA included.

City Administrator said it was a survey answered outside of this study. It was possible staff could have given the non-NWA amount.

Councilmember Piekarski Krech did not see the Cities of Eagan and Burnsville; Dakota County cities listed.

Mr. Strombeck said not every city participates, it's voluntary.

Public Works Director Brian Connolly mentioned Apple Valley and Burnsville are listed, they have lower rates than the City of Inver Grove Heights does.

Mayor Bartholomew asked about the number for the NWA.

City Administrator Wilson responded non-NWA is 33.14, NWA is 45.14.

Councilmember Piekarski Krech stated Ehlers would be discussing the reason the NWA charge is what it is, is to be able to pay those bonds. She was confused in the advice given by the Bond Counsel.

Mr. Strombeck replied this was just the utility rate surcharge, there are also NWA connection fees.

City Administrator Wilson mentioned when she worked with Ehlers upon her arrival with the city, she didn't believe Ehlers has ever represented that the surcharge fully fixes. It was just one more place to get a little bit more revenue to meet debt service obligations.

Councilmember Murphy mentioned between the NWA and non-NWA, some things may be more expensive in one area versus another and vice versa. He questioned why the NWA wasn't a part of the taxes charged on a yearly basis and a part of the levy that has to be generated.

City Administrator Wilson replied that was a collective policy choice by City Council predecessors who decided it was the best option of their alternatives. If the Council wanted to go in a different direction to meet bond service obligations, it is in the Council purview. It is a general obligation bond.

Mr. Strombeck continued:

Northwest Area Overview:

- There are dedicated NWA funds for water, sewer, and stormwater.
- Sewer Fund currently has outstanding debt.
- NWA annual debt service is \$1 million dollars per year.
- Core revenue streams are the connection fees, ranging over the last five years of \$150,000 to \$1.9 million dollars per year.
- Potential Solution 1: Slowly eliminate the NWA and treat all the same. Over time new connection fees would help reduce the need for future rate increases.
- Potential Solution 2: Increase connection fees in the NWA higher, to 48% to try to make up the shortfall. Can continue the current process to rely on other revenue streams to fund the gap. Knowing there are 14 more years of debt payments, this would be a tough strategy to continue.

Mayor Bartholomew asked for more information on that being a tough strategy.

Mr. Strombeck replied paying \$400,000 annually over 14 years.

Councilmember Gliva asked if this would help the gap dwindle.

City Administrator Wilson replied it was possible. There are plat and permit connection fees. It has dipped lower in previous years with last year looking like an anomaly.

Councilmember Piekarski Krech asked what happened in 2020. She was curious about the anomaly.

City Administrator Wilson was unsure. She mentioned that staff nor the consultants feel confident the funds would be found elsewhere to fill the gap for the next 14 years. Staff will dig deeper into the fluctuations being questioned.

Councilmember Murphy asked where they transferred in \$4.9 million dollars.

Finance Director Amy Hove replied the \$4.9 million dollars back in 2016 had to do with the last time Ehlers brought forward recommendations. It was a combination of transfers in from numerous different funds. Water fund was one of them, possibly sewer and the general fund. More information can be brought forward.

Mr. Strombeck discussed Benchmarking for water:

- The city is in the middle to upper third. (There is no water surcharge).

Councilmember Dietrich asked if the percentage was the same recommendation as with sewer.

Mr. Strombeck replied yes. Agencies look at between 30-40% as a good number.

- Current water structure is four tiered. The more water used, the higher the rate gets.
- There is the similar 6,000 gallon per quarter included with residential.
 - Tier sizing seems appropriate for residential use.
- Multi-family scales up by the number of units. (This is something they do not always see but can recommend if the billing system can support it).
- Have a special senior citizen rate.
- There is not an irrigation rate. (Everyone is being charged the exact same charge they would for indoor water use). No separation between water uses.

Councilmember Piekarski Krech questioned why the two would be separated.

Mr. Strombeck replied for irrigation, would want to charge a rate slightly higher than indoor domestic use. Want to make sure the irrigation rate structure incentivizes users to be responsible.

Councilmember Piekarski Krech asked how that could be separated out.

Mr. Strombeck replied for residential, check metered data to see what the average home uses in the winter. Estimate based on rainfall rates and what the county and state recommend for irrigation rates. Estimate is based on median/average lot size and what a responsible amount of irrigation is. Those would be used to frame the tiers.

City Administrator Wilson mentioned that the distinction between indoor water use is that it's generally considered an essential service; irrigation is considered a luxury/optional service. Perhaps distinguishing between indoor use and irrigating. Those irrigating should they be treated the same as others doing the same. They want irrigators, such as an office building and single-family home, to be the same. Cities typically don't meter irrigation systems on a single-family home separately, they do on a non-residential property. Staff proposes treating indoor use and irrigation differently; once doing that, treating residential irrigators equal to commercial irrigators.

Mayor Bartholomew thought they were treated differently in the way they are banded for residential. Rates are set by winter use. He did not believe they could get into having two meters at each home.

Public Works Director Connolly replied that would not be his recommendation. Currently, commercial irrigators pay the same base rate as anyone else. Having worked in other communities, he is unsure how big a discussion water conservation has been in this city. Staff is looking for input from the Council about whether they feel water conservation is an important philosophical thing to consider with respects to the rate structure. As it is set up now, it is not.

Councilmember Murphy questioned if there were studies done for having the extra irrigation charge.

Mr. Strombeck replied there are studies such as price elasticity modeling based on climate data and past meter records. He would look for the information; it was dependent on location.

Mayor Bartholomew felt the numbers in front of them could be tweaked to get to a formula.

Councilmember Piekarski Krech did not believe it would be that simple. The city isn't going to meter single family homes. She assumes that's where the bulk of irrigation occurs. She commented that the city has sprinkler systems and are just as guilty as others.

Mayor Bartholomew stated they are charging a rate for 6,000. Anything in the 6,000 to 20,000 range means there is either a big household or they were irrigating. He felt that could be pinpointed.

Councilmember Murphy felt conservation needed to be a big part of the discussion. He was interested in knowing what the price/pain point would be.

City Administrator Wilson explained when moving from Tier 2 to Tier 3 water in the current structure the price goes up 15%. When going from Tier 3 to Tier 4, the price goes up 8.25%. If doing an aggressive conservation approach, it would go up to 25% rather than 8.25%. This would be an example of something that may be looked into changing in the rate structure.

Mr. Strombeck agreed as the tiers move up, the rates typically jump up 25-50%. For pricing irrigation water, would look to price it somewhere between the Tier 3/Tier 4 use.

Mr. Strombeck continued:

Water Cost of Service Results:

- Residential, senior citizen, and multifamily rates are within +/- 10%, meaning they are being charged appropriately.
- Commercial institutional/industrial and irrigation meters are a bit up and down. Industrial and institutional are charged the same tier structure. That doesn't quite work.
 - Given the wide array of commercial type structures, a lot of times tier structures don't work.
 - How much is charged depends on the user.
 - Potential Solutions:
 - Constant block rate for large consistent water users.
 - A combination.
 - Adjust tiers to fit water characteristics of the community.
 - Revise irrigation rates.
- Fixed charge doesn't meet full cost recovery. Not every user is utilizing the 2,000 gallons provided in the fixed charge.
 - Recommend:
 - Being consistent with water. Eliminate gallons and have a fixed charge.
 - Shorten to 1,000 gallons.
 - Recommend keeping the consistency between water and sewer.

Public Works Director Connelly asked the Council about the fixed charge system and if they should try to keep it tied to a fixed gallon usage, 2,000 a month, or open to the fixed charge at a set rate

regardless of use. This is a philosophy item that has an impact on next steps to try to develop a rate structure to bring back with sample recommendations in the future.

Councilmember Piekarski Krech commented if using 2,000 gallons of water, she is not putting all of that in the sewer. She questioned if she should pay the same as someone who is using 10,000 gallons of water and putting 8,000 into the sewer. Sewage is paid based on volume to the Met Council. She questioned the justification.

Public Works Director Connolly mentioned staff would still want to keep the winter usage. Then winter water use could be checked and spread out over the year which would determine the tier. The question would be what is actually used. For example, for electric or gas, if connected to the system a flat rate is paid to be connected and then pay usage on top of that. He said everyone gets 2,000 gallons "for free". It's not free but assumed everyone uses a certain rate. The fixed fee is to be sure there is consistent revenue throughout the year. Other communities have a fixed fee that isn't tied to actual volume metric use. The question would be to look at continuing to have 2,000 gallons or a baseline number or take it off the volume metric measurement. It's based on whether they are connected to the utility or not and pay the flat fee.

Councilmember Gliva mentioned a fixed charge plus usage.

Councilmember Piekarski Krech asked why there was a surplus in the water fund. She felt they were giving away 2,000 gallons of water to every residential unit.

Mr. Strombeck replied they need to make sure to meet the 30% target. 37% of revenue is coming from fixed charges so they are meeting the metric. The 2,000 gallons is not being charged to residents.

City Administrator Wilson mentioned there could be people using 1,500 gallons a month who are overpaying in this structure.

Councilmember Dietrich said with all the information received she was not philosophically ready until she hears what residents think of this Work Session. She questioned if there were comparisons for similar metro cities, what types of things have been implemented, results, or if other cities were at this juncture and redefining how to do it.

Mr. Strombeck replied he could do further research. He shared that most cities in the metro have some sort of tiered structure. It's common not to have tiers for commercial.

Mayor Bartholomew questioned if the \$8.17 wasn't covering administrative, what the number was.

Mr. Strombeck replied the true fixed cost is \$5.09, selling the first 1,000 gallons at \$2.84, then the next 1,000 gallons at \$2.84.

Mr. Strombeck continued with Irrigation Water Use:

- There are several commercial irrigators, some in multi-family.
- Age based discounts could be problematic. Most other communities do this from a needs-based approach. Tie it to a metric to be eligible for a discount.
- Could also look at exemptions and rebates.
- Inver Grove Heights and two other cities have age-based discounts. Two additional communities have needs based discounts.

Mayor Bartholomew requested cases for the age-based challenges.

Mr. Strombeck replied he did not believe any were challenged in Minnesota but have in Wisconsin and Montana.

City Administrator Wilson mentioned there is the legal question of it getting challenged and the practical fairness of it. There are some over age 65 that are very financially well off and paying half of what others are. To receive the discount all that needs to be done is to prove their age.

Mr. Strombeck questioned if it was something that would be kept in the structure or changed.

Mayor Bartholomew responded he was ambivalent but knew there were people that depend on it. He agreed with City Administrator Wilson that there may be some type of needs test.

Councilmember Murphy did not believe it should be based on age.

Mr. Strombeck summarized preliminary recommendations/thoughts:

- Recommend maintaining the residential tier structure with the adjusted fixed pricing.
- Recommend looking at alternative non-residential tier sizing to balance inequities.
- Modify the fixed charge.
- Dedicated irrigation rates.
- Whether or not to continue the senior discount or come up with an alternative.

Connection Fees/Hook-up fees:

- Connection fees offset costs that existing users have paid for service, supply, capacity, expansion.
- Other terms referenced in comparison: development charges, connection fees, access charges, impact fees, hook-up fees.
- Considerations/Limitations:
 - Rational Nexus Test. Test makes sure the fees don't exceed the cost, what you are charging users, proportional to demand.
 - Avoid double charging.
- Connection Fees - How they are applied:
 - Commonly applied for a specific development area or to the utility as a whole.
 - More common to have one set of fees.

Councilmember Piekarski Krech asked about half of a community being MUSA and the other half not.

Mr. Strombeck replied there are challenges with Inver Grove Heights.

Mayor Bartholomew felt the commitment to stormwater in the NWA would be the biggest stumbling block.

Mr. Strombeck discussed Inver Grove Heights' current connection fees stating there are quite a few different connection fees. Assessments don't apply in certain situations.

Key Issues:

- Some of the structures were a bit dated and may not reflect current development conditions.
- Current structure is confusing. One of the more confusing ones he has read.

The City of Inver Grove Heights:

- Has received some developer pushback comments related to confusion or costs in certain zoning being higher than neighboring communities.
- Differing fees between NWA and the rest of the city.
- Does not have a stormwater fee outside of the NWA.
 - There is a lot of future need outside of the NWA.
- Confusion surrounding what funds are applied where.

Connection Fees/High Level Potential Options:

- Do nothing (not a good option).
- Adjusting the current fee structure. Streamline the framework, add comparable stormwater connection fee for outside the NWA, eliminating the NWA versus non-NWA fees.
- Look at a new basis for the connection fees. (This would eliminate the NWA specific fees and result in one set of fees).

Councilmember Piekarski Krech asked how those fees would be figured.

Mr. Strombeck replied it would be that any user is buying/paying to connect to the system.

Councilmember Piekarski Krech stated in the NWA they would be connecting to a brand-new system; in another area it could be a 50-year-old system.

City Administrator Wilson replied they could charge people what they are costing the city. More based on the cost the development is imposing on the system.

Public Works Director Connolly stated that the sewer goes to the Met Council, the oldest plant in the state. Regardless of the area, NWA, or non-NWA, all still receive the overall benefit of the system.

Councilmember Murphy mentioned he was looking at Option 3. He questioned if the tax dollars generated in one part of the city stay in that part of the city or if they were being spread throughout.

Mr. Strombeck discussed Stormwater:

- Benchmark: One of the lowest in the metro.
- Has a fairly complicated structure.

Public Works Director Connolly stated they intended to discuss stormwater, but timing was a factor. Their intention is to bring this back in another conversation. Stormwater has a massive to do list with no funding. There are concerns about being able to fund for future stormwater needs. There isn't enough money in the budget for this year's street stormwater projects. It has had to be funded from other sources. Staff's intention is to have a more direct conversation with the Council about what the needs are for stormwater along with a deeper discussion into the stormwater rate structure.

City Administrator Wilson mentioned being the lowest is not good news for the community because it shows they don't have the resources to do the work that needs to be done.

Public Works Director Connolly stated it doesn't help that the city is one of the last in the metro to start a stormwater rate. It means the city hasn't done preventative maintenance for the past 40 years that all of the other cities on the list have had the luxury of doing.

Mayor Bartholomew asked when the information would be sent to the Council.

City Administrator Wilson replied this would be emailed to the Council in the morning.

Mayor Bartholomew said he was frustrated there wasn't time to have the right questions in hand. He felt their discussions had to be made on the fly. He said the biggest fail point was the lack of common use of terms and understanding where they were at and what other Councilmembers thought was a charge. He did not believe the Council as a body was grasping what the true inequities were. He said connection fees have to be treated different because of the infrastructure.

Councilmember Piekarski Krech asked if they were trying to get this done for the 2023 Budget.

City Administrator Wilson replied it was for the rates that are typically adopted in November or December. This could be a case of next years rates being improved but not perfect.

Councilmember Piekarski Krech was concerned about understanding this and the budget. She was deeply concerned about next year's budget because there are so many things that need to be taken care of. She shared that she doesn't have the information she needs right now to do anything.

City Administrator Wilson mentioned that the next City Council Work Session takes place on Monday, August 1st. There are two topics on the agenda:

1. The 2023 Budget. The first of multiple Council discussions on this topic.
2. How the city regulates rental housing in the community; both short term and ongoing.

There is also an EDA Meeting at 5:00 the same evening with the topic of the attraction of more retail, restaurants, and business to the community and what steps the Council is looking to take.

Mayor Bartholomew said he liked the approach of easy things to do and accomplish when it comes to rates.

4. Adjourn:

Motion by Piekarski Krech to adjourn the meeting at 9:14 p.m.

Ayes: 5

Nays: 0 Motion carried.

Minutes prepared by Recording Secretary Sheri Yourczek

**INVER GROVE HEIGHTS CITY COUNCIL MEETING
MONDAY, JULY 25, 2022 - 6:00 P.M. - 8150 BARBARA AVENUE**

1. CALL TO ORDER:

The City Council of Inver Grove Heights met in regular session on Monday, July 25, 2022, in person. Mayor Bartholomew called the meeting to order at 6:06 p.m. The Pledge of Allegiance was recited.

2. ROLL CALL:

Present In-Person: Mayor Bartholomew, Council Members: Piekarski Krech, Dietrich, Gliva; City Attorney McCauley Nason, City Administrator Wilson, City Clerk Kiernan, Police Chief Chiodo, Community Development Director Rand.

Absent: Councilmember Murphy

3. PRESENTATIONS:

4. CONSENT AGENDA:

A. Approval of June 27, 2022 City Council meeting minutes

B. Approval of Disbursements. **Resolution 2022-148**

C. Approval of Personnel Actions

D. Temporary Off-Site Gambling Permit for South St Paul Moose Lodge 1088. **Resolution 2022-149**

E. Exempt Gambling Permit for IGH Best Foundation

F. Resolution 2022-150 Accepting Work for City Project Nos. 2017-03 - Watermain Improvements for the 65th Street Loop and 2017-24 - TH 3 Intersection Improvements for 65th Street, Including Appurtenant Final Payment, and Contract Closeout Documentation

G. Resolution 2022-151 Approving Final Plans and Specifications and Authorizing Advertisement for Bids for the Argenta Trail Drainage Improvements (City Project 2020-12)

H. Approval of BWSR Stormwater Grant Application for Dawn Way Neighborhood Improvements (City Project Nos. 2022-09D and 2023-09D). **Resolution 2022-152**

I. Approval of Grant Application for PFA Point Source Implementation Grant (PSIG) for the Dawn Way Neighborhood Improvements (City Project Nos. 2022- 09D and 2023-09D). **Resolution 2022-153**

J. Appointing Additional Election Judges for the 2022 Election Cycle. **Resolution 2022-154**

K. Resolution 2022-155 Approving Participation in Proposed Settlement Class in Class Action Lawsuit Against Monsanto for Polychlorinated Biphenyl (PCB) Contamination

L. Server Rack Lease Agreement with the City of Lakeville

M. Resolution 2022-156 Approving a Parking Variance for 6449 Concord Blvd

N. Acceptance of Citygate Associates' Fire Department Service Evaluation Final Report. **Resolution 2022-157**

O. Approval of New Massage Therapist License

Councilmember Gliva requested pulling Agenda Item 4J.

Motion by Dietrich, second by Gliva, to approve the Consent Agenda as presented with exception to Agenda Item 4J.

Ayes: 4

Nays: 0 Motion carried.

INVER GROVE HEIGHTS CITY COUNCIL MEETING - July 25, 2022

Agenda Item 4J. Appointing Additional Election Judges for the 2022 Election Cycle. Resolution 2022-154.

City Clerk Rebecca Kiernan mentioned the city is short on Primary Election Judges. The list before the Council on July 11th was for General Election Judges. There is a need for additional Judges.

Councilmember Gliva commended the City Clerk on the good job she has been doing on the election process. She shared that in the spirit of transparency, she still wants work to be done on the process. Currently the City Clerk is in charge, she suggested the possibility of looking at the governing body of the city to ensure there is full transparency and that judges are selected fairly and evenly.

Motion by Gliva, second by Dietrich, to approve Agenda Item 4J. Appointing Additional Election Judges for the 2022 Election Cycle. Resolution 2022-154

Ayes: 4

Nays: 0 Motion carried.

5. PUBLIC HEARING:

6. REGULAR BUSINESS:

A. 2nd Reading of Ordinance Amending the City Code Related to the Discharge of Bows and Arrows

Police Chief Melissa Chiodo discussed the 2nd reading of Ordinance 5-6-1: Use of Firearms and Bows and Arrows along with consideration on the proposed designated map. The purpose of the proposed Ordinance is to protect public health and safety by eliminating the use of bows and arrows near parks, in areas with growing residential and business structures, and/or population.

Where/When Bow Hunting would be allowed:

- Permitted on a parcel within the designated map and must also be:
- At least 2.5 acres in size for the owner or resident of the property
- At least 5 acres in size for someone other than the property owner or resident to bow hunt on, then only with written permission of the property owner
- Parcel must be located in the designated portion of the map, and
- Hunter must carry written permission of the property owner (if it is not the property owner) with specific dates noted, and
- Hunter must be licensed and follow all DNR hunting rules and requirements
- Deer management activities pursuant to a Council resolution specifically authorizing such activities.

Restrictions on Bow and Arrow use:

- No shooting or discharge of any bow and arrow within 300 feet of any residential or commercial structure unless the person owns the residential or commercial property
- No shooting or discharge of any bow and arrow within 200 feet of any driveway not owned by the person shooting/discharging
- No shooting or discharge of any bow and arrow within 200 feet of any public street, private roadway, or city/county/state park land

Exemptions:

- Target Practice: In enclosed structures, posted/designated park areas (Currently no parks allow archery and there are no archery lanes), allowed if approved official school/college, supervised

INVER GROVE HEIGHTS CITY COUNCIL MEETING - July 25, 2022

program, licensed commercial archery range, owner, or resident of at least 2.5 acres on the maps designated area.

Changes in the Police Department Role:

- Hunters no longer need to register with the IGH Police Department
- Police Department would not be required to determine hunter proficiency
- No process for requesting exemptions
- Police will respond to calls reporting bow hunting in violation of the ordinance
 - Outside the designated area of the city, on parcels of 5 acres or less, hunting without land owners' permission

Changes that were being made on the proposed designated map was shown and include:

- Northwest corner above Courthouse Boulevard has been eliminated.
- If owning 2.5 acres or more, can hunt your own land/people that live with you can hunt it.
- Owning 5 acres or more, can give permission to whoever you want to hunt the land.

Councilmember Dietrich requested clarification regarding if there were any 2.5-acre parcels inadvertently left off the map, not in a designated area.

Police Chief Chiodo replied no. There would be another map done with county GIS.

Motion by Piekarski Krech, second by Gliva, to accept the emails received into the record.

Ayes: 4

Nays: 0 Motion carried.

Greg Sperl, 1705 93rd Circle East, referred to the resident meeting that took place on July 12th, saying he is a registered hunter in the city and was not notified of the meeting. He addressed exemptions suggesting it be a requirement to have practice shooting at a target from the stand, so it's known where they are shooting. He felt youth going door to door throughout the city for signatures to allow them to hunt was something good for youth who do not have enough to do. He suggested park and recreation be involved instead of the police checking out hunting. He offered to volunteer to check properties/places that need to be hunted. He mentioned that North and South Valley Parks are overpopulated with deer, some could hunt there if approved. He referenced the area he lives stating there have been a lot of wildlife coming from the south due to acres of fields being changed from feed to solar farms. He questioned paying hunters to hunt for overpopulation when there are willing hunters in the city. He was concerned about the acreage and didn't believe 2.5 acres was included in the first reading. He felt 1 acre, depending on location, could also be done.

Brad Hopke, 1355 102nd Street West, was unaware of the July 12th meeting and would have attended had he known and was in town. He asked what started the review process.

Mayor Bartholomew replied the question of how this has come about has been addressed, but it was for safety reasons, resources taken to manage, and a need for a larger area instead of a smaller footprint.

Mr. Hopke mentioned things changed between the 1st and 2nd readings regarding now being able to hunt on 2.5 acres. He was concerned about the intersection of 102nd and Akron, at dusk there are about 10-25 deer in the field. He was unsure of the costs to cull the herd.

Steve Woog, 96th Street, referenced the meeting brought up with the police chief on July 12th stating that he reached out to the police chief and Councilmembers. It was not a select/limited group. He shared that both the police chief and the Council have been very responsive. He agreed with the police

INVER GROVE HEIGHTS CITY COUNCIL MEETING - July 25, 2022

not having this burden. He felt having the 5 acres and moving it down to 2.5 acres was a nice compromise.

Levi Hinton, 8985 Aralia Court, addressed the changes made from 5 acres to 2.5 acres stating the change seems as if the safety concern wasn't that grave. Owners would be able to hunt on 2.5 acres. Anyone else, with permission, can hunt on over 5 acres. He felt if public health and safety were an issue, there would not be different rules for owners versus others. He did not believe there should be an acreage restriction, number of feet limitations should be enough. He has also noticed an influx of southern deer. He mentioned that was in a CWD (Chronic Wasting Disease) controlled environment. The disease is 100% fatal to deer that have it and it spreads in overpopulated areas. He mentioned that bag restrictions are currently at about 5 deer which acknowledges how overpopulated deer are.

John Calkins, 1905 96th Street East, agreed it was a good idea to remove some of the responsibility from the police department. He asked if the person needs to be the owner of the property. He has children who would also like to hunt on his property, they are not the owner. His property is between 2.5 and 5 acres.

Police Chief Chiodo replied they could hunt on the property if residing on the property.

Mayor Bartholomew questioned if not residing there, the owner cannot permit them to hunt.

Police Chief Chiodo responded he cannot.

Mr. Calkins mentioned the safety concern doesn't seem to be a real issue because there is the 2.5-5 acre and foot restrictions to abide by. He said one of the reasons this topic was brought up in the first reading was due to strange cars in the vicinity, the police would have to come out and check. He said they have strange cars all the time, not just for this. H

Mr. Sperl mentioned that Mr. Calkins has a son who serves in the Military; that was who Mr. Calkins was asking for. The current language would deny Military home on leave, from hunting in his father's back yard. He said he did not believe 2.5 acres was a good safety item and needs to be looked at and eliminated. He suggested the DNR be left to set the parameters.

Mayor Bartholomew requested the police chief address the 2.5 acres and family members. He said if allowing 2.5, maybe they consider family members as well.

Police Chief Chiodo replied that would come at the direction of the Council.

Police Chief Chiodo clarified that the young people knocking on doors are not residents of the city. They are asking 10 homes in a row for permission to hunt in an area they cannot and then request exceptions. Information regarding hunting is put in the safety survey, on the website, and Facebook page. Staff is open to suggestions about other ways to get information out and receive more feedback.

Mayor Bartholomew requested information on timing as he would prefer to have a 5-member Council.

Police Chief Chiodo responded If Council holds the 2nd reading on August 8, with the 3rd reading on August 22nd, that would give Staff time. Staff would get maps out along with what is required. Bow hunting starts September 17th through December 31st, 2022.

City Administrator Kris Wilson mentioned one of the primary reasons for distinguishing a smaller portion where the owner can hunt was the knowledge of property boundaries.

INVER GROVE HEIGHTS CITY COUNCIL MEETING - July 25, 2022

Police Chief Chiodo stated there were approximately 700 responses from the Community Safety Survey's. The community is split 50/50. Response was unanimous for residents only to hunt in the city. It was determined that many were not even from the city or county.

Mayor Bartholomew stated for those on 2.5 acres, he would like to have the owner's family be able to hunt the property. He wasn't a fan of 2.5 acres, but it was already in the reading.

Councilmember Gliva thought they need to revisit who could hunt on the 2.5-acre parcel. Police Chief Chiodo mentioned family members would have to be designated. Whether that includes Aunts, Uncles, Cousins, Grandma's, Grandpa's.

Mayor Bartholomew suggested immediate family.

City Attorney Bridget McCauley Nason stated an option would be to go away from the designation of certain people/relationships and go back to with permission.

Councilmember Piekarski Krech mentioned it doesn't address the fact that people should know the boundaries and stay within them.

Councilmember Dietrich requested time to think about how it would be worded with legal. She felt it made sense that extended family could hunt on the land.

Councilmember Piekarski Krech suggested holding off until the next meeting.

Police Chief Chiodo clarified the request:

- She would work with legal on what is family or extended family on 2.5 acres.
- Leave the 5 acres that you can give anyone permission.

Mayor Bartholomew questioned if it should be 2.5 acres for anyone that has permission.

Councilmember Piekarski Krech suggested knowing where the boundaries are.

Motion by Piekarski Krech, second by Gliva, to continue the 2nd Reading of an Ordinance Amending the City Code Related to the Discharge of Bows and Arrows to the August 8, 2022 City Council Meeting.

Ayes: 4

Nays: 0 Motion carried.

B. Temporary Liquor License Extension for Drkula's Bowl

City Clerk Rebecca Kiernan presented the temporary liquor license extension for Drkula's. The establishment is looking to do an Inver Grove Heights Day event with liquor outdoors on Saturday, September 10th. Insurance certification provided indicated that the parking lot is covered by their insurance policy. The police department and fire marshal have been notified and approve the plans.

Motion by Piekarski Krech, second by Dietrich, to approve the Temporary Liquor License Extension for Drkula's Bowl.

Ayes: 4

Nays: 0 Motion carried.

C. Interim Use Permit to Allow Crushing of Concrete or Asphalt. Resolution 2022-158

INVER GROVE HEIGHTS CITY COUNCIL MEETING - July 25, 2022

Community Development Director Heather Rand presented an Interim Use Permit (IUP) to allow the crushing of concrete or asphalt by S.M. Hentges. This is year 2 of a 3-year project by Dakota County located at South Argenta and 70th Street in the northwest area.

- Requesting to stockpile and crush on the parcel owned by the county. To note, there are some residential properties located nearby.
- The original request was to allow for two 10-day crushing events in 2022 and 2023.
 - Dakota County has very high standards, instead of doing the crushing on site within the road right of way, they request coming off onto the edge of the site to crush it finer.
- During the Planning Commission discussion, issues were raised by both residents and the Commission.
- As a result, an alternative plan emerged. It was agreed upon by the applicant to have the Interim Use Permit cover a onetime 10-day event for 2022 only. If additional crushing is needed, a new permit would be required for separate approval.

Action Requested:

- Consider an Interim Use Permit for the crushing of concrete/asphalt for the Argenta Trail/70th road construction project.
- Permit to expire on 12/31/2022.
- Planning Commission recommended approval of the one-time event in 2022 (6-1).

Staff requests the Council resolution include one additional component: There is an engineering memo dated 6/22/2022, laying out 17 conditions the applicant would have to comply with. Legal counsel noted this was not included in the resolution, staff requests this be added.

Planning and Engineering agree with the permit time and recommend approval with the conditions listed in the resolution.

Joseph Miller, SM Hentges & Sons, 650 Quaker Avenue, Jordan, MN, 55352, stated the company has a \$25 million-dollar, 3-year project. They are in year 2. He stated that the crusher is available immediately to produce the 18,000 tons needed for a section of roadway. They need to be done by October 31st, 2022. It is necessary to get the crusher in there as soon as they can.

Mayor Bartholomew asked Mr. Miller if he agreed with the conditions.
Mr. Miller replied yes, they are in agreement.

Councilmember Gliva asked if that runs for 10 solid days, such as 8:00 to 5:00, or if it's broken up.
Mr. Miller replied it would be 7:00 to 4:30 Monday through Friday. They hope to get 2,000 tons a day every day for 10 days solid.

Pat Simon, 1636 69th Street West, asked if 70th Street from Arkansas to Robert Street would be open this winter.

Mr. Miller replied 63 going north/south, 63 going east/west, connecting Delaware to 65th, will definitely be open at the end of this year. The issue from the proposed roundabout at 70th Street and 63 north/south between that and Robert Street, are the current utilities on the north side of the road that are preventing them from getting the eastbound travel lanes done this year. They are working with Dakota County to find solutions.

Councilmember Piekarski Krech mentioned there would be a connection to Robert Street via 65th Street to Argenta. 70th Street going west should be open.

INVER GROVE HEIGHTS CITY COUNCIL MEETING - July 25, 2022

Motion by Piekarski Krech, second by Gliva, to approve the temporary Interim Use Permit to Allow Crushing of Concrete or Asphalt, with the inclusion of the 17 conditions and the engineering memo. Resolution 2022-158

Ayes: 4

Nays: 0 Motion carried.

D. Discussion of Edible Cannabinoid Product Legislation

City Attorney Bridget McCauley Nason discussed the legislative changes that occurred the last Legislative Session which led to the legalization of certain edible products containing THC.

Background Information:

- This item discusses the legalization of certain edible products that contain THC which is a psychoactive ingredient commonly found in Marijuana.
- There is a difference in Minnesota between Marijuana and Hemp:
 - Marijuana is a mind-altering psychoactive drug with over 480 constituents. THC (delta9-tetrahydrocannabinol) is believed to be the main ingredient causing those affects. Marijuana is all the Cannabis plant with some exceptions, but does not include:
 - Hemp. Defined by another Statute is a Marijuana plant with the delta-9tetrahydrocannabinol concentration of not more than 0.3% on a dry weight basis.
- Cannabinoids: A group of substances found in the cannabis plant. Main cannabinoids are THC and cannabidiol (CBD). There are also more than 100 other cannabinoids.
- Edible Cannabinoid Products: This means any product that is intended to be eaten or consumed as a beverage by humans, contains a cannabinoid in combination with food ingredients, and is not a drug.

2022 Legislative Changes:

- Prior to this Legislative Session, certain non-intoxicating cannabinoid products were allowed to be sold such as CBD oils or lotions. There was lack of clarity regarding the ability to sell edible CBD products.
- This legislation allows some edible and beverage products infused with THC to be sold for consumption by persons over 21 years of age.
- Allows edible cannabinoid products provided they do not contain more than 0.3% of any THC, more than 5 milligrams of THC in any single serving, or 50 milligrams of THC per package.
- Law does not limit where edible cannabinoid products may be sold.
- Must be over age 21 to purchase CBD or THC products. Sales to a person under 21 is a misdemeanor.
- MN Board of Pharmacy has the regulatory authority over eligible cannabinoid products.

Restrictions:

- Cannot bear likeness or contain cartoon-like characteristics or fruit that appeal to children.
 - Flavors include Blue Raspberry, Cherry, Lime, and other fruit flavors.
- Have to be made by applying an extracted or concentrated Hemp derived cannabinoid.
 - Cannot take a Hemp derived cannabinoid and apply it to commercially available food or snack item.
- Cannot be packaged in a way that it looks like a commercially available food product.
 - Tamper resistant, opaque, child resistant.
- Language regarding single use serving size.
 - If containing multiple servings, each serving must be indicated by scoring, wrapping, or other indicators designating the serving size. To Note: Cannot have more than .5mg of THC per serving.

INVER GROVE HEIGHTS CITY COUNCIL MEETING - July 25, 2022

City Considerations:

- Zoning: The city has authority over zoning.
 - Some cities have been looking at whether or not there should be additional regulations related to the manufacturing and production of cannabinoid products.
 - Location of stores selling edible cannabinoid products.
- Licensing: The city has the legal authority to require a license for the sale of edible cannabinoid products. Possible terms of a license include Age of seller, location of the product in the store (behind the counter), and other license related criteria.
- Could a city prohibit the sale of such products: Some cities are banning or pausing zoning related applications (This is untested. Unclear what the legal authority is to prohibit sales). These products are being sold in at least one store in Inver Grove Heights. If banning, must issue the store with inventory (legal under state law) that they cannot sell.

Resources/Comparisons:

The League of Minnesota Cities has been providing Legislative updates to city staff and city attorneys.

- A city attorney working group has been formed and meets once a week.
- Other Dakota County cities not taking action at this time: Eagan, Lakeville, Apple Valley, and South St. Paul
- Moratoriums:
 - One city is looking at adopting a moratorium primarily focusing on zoning.
 - Some cities are adopting moratoriums (interim ordinance) to study zoning ordinance changes related to retail locations.

Discussion:

- What questions does the Council have
- What, if anything, are Councilmembers hearing from residents and local businesses
- Does the Council want staff to take any next steps such as: Prepare any action items and if so, on what timeline

Councilmember Piekarski Krech asked if the city knows for sure who is selling them and if it is required to notify the city.

City Attorney McCauley Nason replied they are not required to notify the city.

Councilmember Piekarski Krech noticed a lot of health providers, chiropractors, and massage therapists, who have used CBD oils. She questioned if it was legal for tobacco stores to sell. She is aware that it is not legal for liquor stores.

City Attorney McCauley Nason replied liquor stores cannot due to alcohol and gambling enforcement. These products would likely been seen at vape shops and smoke shops.

Councilmember Dietrich asked if there has been discussion at the state level about a Special Session. She does not like seeing cities pitted against each other with things like this.

City Attorney McCauley Nason replied there is discussion at the Capital regarding an additional legislative response.

Mayor Bartholomew said he heard from one resident who was not for or against but urged a moratorium. He requested information on what the legal path was for a moratorium and sales tax.

City Attorney McCauley Nason replied they were not taxed at the local level.

Councilmember Gliva thought it was 2% at the state level.

City Attorney McCauley Nason was unaware of any path forward for the city to impose a tax. She responded to the question about a moratorium stating it is essentially hitting pause in order to provide the city an opportunity to study. An interim ordinance could be adopted. It only

INVER GROVE HEIGHTS CITY COUNCIL MEETING - July 25, 2022

requires one reading and doesn't go to Planning Commission. It can be for a period no longer than one year, or less than one year. Staff can be directed to perform a study regarding what regulations the city should consider adopting. If adopting, it would preclude any new uses in the city. Places currently selling these products would be able to continue to sell them.

Police Chief Chiodo shared her feedback to the new rules stating today staff was given, by the State of Minnesota, a Law Enforcement Hemp derived THC Inspection Checklist that should be followed if inspecting businesses. She believed they should inspect as they do for alcohol and tobacco sales. She said the department was unaware of who sells it in the city, but if googled it shows one store selling it at 5 times the legal limit of THC. Their site says 25mg versus 5mg. She felt it was important to find out who is selling, make sure they are selling what is legal, and that its packaged properly. Shops selling the products have been burglarized. These items can be taken and sold on the street to kids and people because of what it does. She would like to see some type of safety and/or security requirements for businesses to protect their employees and for the owner to protect residents. She mentioned she was told today that some of the gas stations are carrying it as well.

Councilmember Piekarski Krech asked if the safety concern was more than with alcohol and tobacco. Police Chief Chiodo replied they do not see liquor stores burglarized only to resell it on the street. There is a trend with places selling THC, Hemp, Cannabinoid, or Cannabis.

Councilmember Piekarski Krech asked what the penalties were if violating.

Police Chief Chiodo replied a two-page form is to be filled out and turned in to the Hemp related Cannabinoid Complaint Group at the Minnesota Board of Pharmacy. She was unsure what the state would do. If this were something the Council chooses to regulate for businesses, the ordinance would need to be checked as to what the violation would be, add it to the ordinance, and enforce.

Mayor Bartholomew felt the do-nothing approach was not the right way to go. His concern was with the age of 21, how to enforce, and how to be certain the content was right.

Councilmember Piekarski Krech would like to see it licensed.

Councilmember Dietrich has not heard from residents. She mentioned she was caught off guard about this and would like to hear from residents to find out what their concerns are.

Councilmember Gliva agreed with what was said by Councilmember Dietrich. She said she sat in on a meeting with the Minnesota League. It was mixed by what cities were planning on trying. She knew the City of Stillwater placed a moratorium back in November. She said she heard talk of having a Special Session after the Primary. She has not heard anything from residents. She felt at some point this may need to be licensed.

Mayor Bartholomew suggested looking to a moratorium so there is a chance to get other ordinances in line for the possible start.

City Attorney McCauley Nason mentioned the League put together the City Attorney Working Group because Lawyers are trying to help cities. She said that staff could work on preparing a draft license or moratorium ordinance to bring forward at a future date. Things could change with other cities in the weeks to come, she would like to see what the results and parameters of their actions would be.

City Administrator Wilson mentioned there was also the risk of doing nothing and becoming a hub for these types of sales. A licensing approach could be applied in 60-90 days. If there are concerns about

INVER GROVE HEIGHTS CITY COUNCIL MEETING - July 25, 2022

the location of establishments a moratorium seems more important. A moratorium doesn't regulate the cashier who sells it or keeps it behind the counter. It just prevents the city from getting more stores.

Mayor Bartholomew felt it was wise to get a freeze on the moratorium and then licensing, inspections, and requirement of sale.

City Attorney McCauley Nason clarified what the Council was determining stating that they would like the opportunity to consider some type of licensing. Licensing takes longer to put together than a moratorium. A moratorium could be placed on the agenda for the first City Council meeting in August or a Special Meeting on the Work Session date could also take place.

Councilmember Dietrich requested information on what has been done with Stillwater.

Councilmember Gliva believed Stillwater had a specific ending date, it was not one year.

Councilmember Gliva asked if it could be manufactured here.

City Attorney McCauley Nason replied in theory it could be imported or manufactured here. There is an Industrial Hemp Board that governs some of the products.

7. PUBLIC COMMENT:

Brenda Sabistina, 10380 Brent Avenue, referenced that on May 19th, 2017, discussion began with Tom Link about the Inver Grove Heights Whistle Free Zone. They almost had a sign up in January 2019. She said the railroad keeps changing personnel and changing their minds. She asked the Council if they still cared if it is still on their list. She said that staff has changed and COVID hit. She asked if whistle free could be brought back for discussion.

Mayor Bartholomew stated he was still interested in it.

Tamara Martin, 6215 Carleda Way, referred to three wooded lots with 100-year-old trees along Carleda Way that have been left idle for over 50 years. During that time, the surrounding community has become attached to the trees and have used the lots as their own open space. She shared that the city owns the lots and plans to develop them. On behalf of the residents of Carleda Way and Prairie Estates, they are opposed to the development and are voicing their opposition. She asked for help understanding where the city is at regarding rezoning, what the schedule/timeline looks like, and what type of involvement the residents could have. Those in her area have alternatives they would like to propose if that would be an option.

Marilyn Weis, 2846 104th Court East, said her and her husband moved to the area in 1989 and own approximately 6 acres of land. She does not approve of paving 105th Street and does not want to have a bike path in her backyard. She asked what the timeline was for the bike path and the existing plans to pave 105th Street. If paving, she asked who would pay the cost. She shared in the early 90's, 23 out of the 24 homeowners on 105th voted not to pave the road and keep it rural.

8. MAYOR AND COUNCIL COMMENTS:

9. ADJOURN:

Motion by Gliva to adjourn the meeting at 7:51 p.m.

Ayes: 4

Nays: 0 Motion carried.

Minutes prepared by Recording Secretary Sheri Yourczek

**INVER GROVE HEIGHTS CANVASS BOARD MEETING
FRIDAY, AUGUST 12, 2022 - 8150 BARBARA AVENUE**

1. CALL TO ORDER/ROLL CALL:

The City Council of Inver Grove Heights met for the Canvass Board meeting to certify the General Election results from the August 8, 2022 State Primary. Mayor Tom Bartholomew called the meeting to order at 9:00 a.m. Present were Mayor Bartholomew, Council Members: Dietrich, Gliva, Murphy and Piekarski Krech. Staff: City Administrator Wilson, Clerk Kiernan, and Deputy Clerk Malott

2. Certify Results of the 2022 State Primary

City Clerk Kiernan stated that the Canvass Board packet was provided to the council with the Abstract Report drafted by Dakota County. The Resolution #2022-177 requires approval and certifies the votes cast. Candidates proceeding to the general election is as follows:

Mary T'Kach
Jennifer Beck-Brown
Tony Scales
Kathy Fischer

Motion by Gliva; Second by Piekarski Krech to approve resolution canvassing the votes cast at the August 9, 2022 State Primary Election of the City of Inver Grove Heights and declaring candidate results.

3. Adjourn: A motion was made by Council member Piekarski Krech, seconded by Murphy to adjourn the meeting. Motion was carried unanimously. Meeting adjourned at 9:06 a.m.

Request for Council Action

SUBJECT: Approval of Disbursements

MEETING DATE: August 22, 2022

ITEM TYPE: Consent Agenda

CONTACT: Ryan Albright, Accounting Technician, 651.450.2515

ACTION REQUESTED

The Council is asked to adopt the attached Resolution, approving disbursements for the period of August 3 – August 16, 2022.

BACKGROUND

The following chart represents a summary by fund type of the disbursements processed during the period of August 3 – August 16, 2022. Disbursement details are attached to this memo.

Fund Type	Amount
General Fund	\$567,551.91
Special Revenue	428,561.07
Debt Service	-
Capital Projects	1,111,289.44
Enterprise	21,278.13
Internal Service	51,729.24
Escrows	92,365.42
Total - All Funds	\$2,272,775.21

FISCAL IMPACT

The disbursements are within adopted budgets for the associated funds or have otherwise been approved by Council

RECOMMENDATION

Staff recommends approval of the disbursements as presented.

ATTACHMENTS

1. Resolution
2. Disbursements (8.3.2022 - 8.16.2022)

**DAKOTA COUNTY
CITY INVER GROVE HEIGHTS
DAKOTA COUNTY, MINNESOTA**

RESOLUTION NO. _____

**RESOLUTION APPROVING DISBURSEMENTS FOR THE PERIOD OF
August 3 – August 16, 2022**

WHEREAS a detailed listing of disbursements for the period of August 3 – August 16, 2022, was presented to the council for approval.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF INVER GROVE HEIGHTS, MINNESOTA, that payment of the disbursements for the following fund types are approved:

Fund Type	Amount
General Fund	\$567,551.91
Special Revenue	428,561.07
Debt Service	-
Capital Projects	1,111,289.44
Enterprise	21,278.13
Internal Service	51,729.24
Escrows	92,365.42
Total - All Funds	\$2,272,775.21

Adopted this 22nd day of August 2022 by the City Council of Inver Grove Heights, MN

Tom Bartholomew, Mayor

ATTEST:

Rebecca Kiernan, City Clerk



City of Inver Grove Heights

Expense Approval Report

By Fund

Payment Dates 8/3/2022 - 8/16/2022

Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
Fund: 101 - GENERAL FUND					
ICMA RETIREMENT TRUST - 457	INV0144623	07/29/2022	457 - ROTH AGE <50 %	101.203.2031400	437.07
ICMA RETIREMENT TRUST - 457	INV0144624	07/29/2022	457 - ROTH AGE <50	101.203.2031400	455.00
ICMA RETIREMENT TRUST - 457	INV0144625	07/29/2022	457 - ROTH AGE 50+	101.203.2031400	225.00
ICMA RETIREMENT TRUST - 457	INV0144626	07/29/2022	457 -AGE <49 %	101.203.2031400	7,550.70
ICMA RETIREMENT TRUST - 457	INV0144627	07/29/2022	457 -AGE 50+	101.203.2031400	5,905.29
ICMA RETIREMENT TRUST - 457	INV0144628	07/29/2022	457 -AGE <49	101.203.2031400	8,121.00
ICMA RETIREMENT TRUST - 457	INV0144629	07/29/2022	457 PLAN -AGE 50+ %	101.203.2031400	1,672.24
WI SCTF (WI SUPPORT COLLECT...	INV0144636	07/29/2022	PARTICIPANT ID#0004986316	101.203.2032100	433.06
MEDSURETY ACH ONLY	INV0144637	07/29/2022	HSA ELECTION-FAMILY	101.203.2032500	3,395.82
MEDSURETY ACH ONLY	INV0144638	07/29/2022	HSA ELECTION-SINGLE	101.203.2032500	6,118.50
PERA	INV0144641	07/29/2022	PERA COORDINATED PLAN	101.203.2030600	50,917.58
PERA	INV0144642	07/29/2022	EMPLOYER SHARE (EXTRA PERA)	101.203.2030600	3,916.79
PERA	INV0144643	07/29/2022	PERA DEFINED PLAN	101.203.2030600	21.92
PERA	INV0144644	07/29/2022	EMPLOYER SHARE (PERA DEFIN...	101.203.2030600	21.92
PERA	INV0144645	07/29/2022	PERA POLICE & FIRE PLAN	101.203.2030600	27,851.42
PERA	INV0144646	07/29/2022	EMPLOYER SHARE (POLICE & FI...	101.203.2030600	41,777.11
ICMA RETIREMENT TRUST - 457	INV0144647	07/29/2022	ROTH IRA (AGE 49 & UNDER)	101.203.2032400	3,268.05
ICMA RETIREMENT TRUST - 457	INV0144648	07/29/2022	ROTH IRA (AGE 50 & OVER)	101.203.2032400	644.23
ICMA RETIREMENT TRUST - 457	INV0144649	07/29/2022	ROTH-AGE <49 %	101.203.2032400	46.23
EFTPS	INV0144650	07/29/2022	FEDERAL WITHHOLDING	101.203.2030200	72,795.20
MN DEPT OF REVENUE (PAYROL...	INV0144651	07/29/2022	STATE WITHHOLDING	101.203.2030300	31,155.30
EFTPS	INV0144652	07/29/2022	MEDICARE WITHHOLDING	101.203.2030500	20,801.74
EFTPS	INV0144653	07/29/2022	SOCIAL SECURITY WITHHOLDING	101.203.2030400	59,034.52
EFTPS	INV0144654	07/29/2022	FEDERAL WITHHOLDING	101.203.2030200	152.68
MN DEPT OF REVENUE (PAYROL...	INV0144655	07/29/2022	STATE WITHHOLDING	101.203.2030300	34.13
EFTPS	INV0144656	07/29/2022	MEDICARE WITHHOLDING	101.203.2030500	32.38
EFTPS	INV0144657	07/29/2022	SOCIAL SECURITY WITHHOLDING	101.203.2030400	138.48
ING DIRECT	INV0144667	07/29/2022	MSRS-HCSP	101.203.2032200	4,670.14
OXYGEN SERVICE COMPANY, INC	0003529073	08/11/2022	OSC Supplies	101.42.4000.421.60065	67.12
DAKOTA CTY FINANCIAL SVCS	00044679	08/11/2022	CJN/RMS Fee	101.42.4000.421.70501	79,398.93
MINNEAPOLIS OXYGEN CO.	00096178	08/11/2022	cylinder rental St 3	101.42.4200.423.30700	264.31
MINNEAPOLIS OXYGEN CO.	00096179	08/11/2022	cylinder rental St 1	101.42.4200.423.30700	188.79
BEACON ATHLETICS	0555290-IN	08/11/2022	playground parts	101.44.6000.451.60065	651.00
BEACON ATHLETICS	0555301-IN	08/11/2022	bases, etc.	101.44.6000.451.60065	1,805.00
DIAMOND VOGEL PAINT	101748183	08/11/2022	Road Paint	101.43.5200.443.60016	2,850.41
ACME TOOLS	10231595	08/11/2022	table saw for station use	101.42.4200.423.60040	1,250.00
ACME TOOLS	10231608	08/11/2022	router table combo for station ...	101.42.4200.423.60040	199.00
ACME TOOLS	10231722	08/11/2022	impact wrench kit for station use	101.42.4200.423.60065	1,018.00
OLS RESTORATION, INC.	1027	08/11/2022	Signal pole painting	101.43.5200.443.40046	10,450.00
OCCUPATIONAL HEALTH CENTE...	103591785	08/11/2022	Pre-employment physicals	101.41.1100.413.30500	300.00
OCCUPATIONAL HEALTH CENTE...	103598527	08/11/2022	Pre-employment physical	101.41.1100.413.30500	266.00
OCCUPATIONAL HEALTH CENTE...	103614880	08/11/2022	Firefighter Pre-employment phy...	101.41.1100.413.30500	1,458.00
MN RECREATION AND PARK AS...	10491	08/11/2022	Parks Job posting	101.41.1100.413.30500	125.00
ELLIE FAMILY SERVICES PLLP	1110	08/11/2022	Peer Support Training	101.42.4000.421.30700	300.00
KIRI ANN FAUL	1197	08/11/2022	Background- Jacob Naatz	101.42.4000.421.30701	650.00
FIRST IMPRESSION GROUP	132515P	08/11/2022	postage for fall brochure	101.44.6100.459.50035	1,214.97
FIRST IMPRESSION GROUP	132764	08/11/2022	Warrant Forms	101.42.4000.421.50030	195.00
MADISON NATIONAL LIFE INSU...	1510469	08/11/2022	Premium 8.2022	101.203.2031700	3,494.91
TRUGREEN	163089107	08/11/2022	pesticide treatments	101.44.6000.451.60035	1,240.00
EYEMED	165382132	08/11/2022	Premium 8.2022	101.203.2032700	227.93
EYEMED	165382134	08/11/2022	Premium-COBRA 5.2022 - 8.2022	101.203.2032710	63.47
SKYHAWKS SPORTS ACADEMY, ...	17518	08/11/2022	Multi-sport & Flag Ftbl camps	101.44.6100.454.30700	1,523.20
GERTENS	187803/D	08/11/2022	infield conditioner	101.44.6000.451.60065	578.00

Expense Approval Report

Payment Dates: 8/3/2022 - 8/16/2022

Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
MCKESSON MEDICAL-SURGICAL ..19625059		08/11/2022	glucose gel for trucks	101.42.4200.423.60065	44.72
MCKESSON MEDICAL-SURGICAL ..19669735		08/11/2022	medical supplies for trucks	101.42.4200.423.60065	468.00
MCKESSON MEDICAL-SURGICAL ..19669736		08/11/2022	medical supplies for trucks	101.42.4200.423.60065	29.44
MCKESSON MEDICAL-SURGICAL ..19669848		08/11/2022	medical supplies for trucks	101.42.4200.423.60065	348.03
MCKESSON MEDICAL-SURGICAL ..19670635		08/11/2022	medical supplies for trucks	101.42.4200.423.60065	1,301.52
PRECISE MRM	200-1037898	08/11/2022	Truck Data	101.43.5200.443.30700	100.00
CLAREY'S SAFETY EQUIPMENT	201086	08/11/2022	new battery for equipment	101.42.4200.423.40042	265.00
SOUTH EAST UMPIRES ASSN	2022	08/11/2022	Summer 2022 season fees	101.44.6100.455.30700	3,407.00
DOUGHERTY, MOLENDIA, SOLFE...	208468	08/11/2022	Conflict Prosecution - Lynch	101.41.1100.413.30700	18.00
MINNESOTA STATE SHERIFFS A...	22-0275	08/11/2022	Report writing course - Skeffing...	101.42.4000.421.50080	25.00
BLOOMINGTON SECURITY SOL...	221055	08/11/2022	software repairs for shelter doo...	101.44.6000.451.40040	354.00
BLOOMINGTON SECURITY SOL...	221765	08/11/2022	repair lock at Oakwood	101.44.6000.451.60066	948.77
PINE BEND PAVING, INC.	22-2285	08/11/2022	Asphalt for patching	101.43.5200.443.60016	325.65
DAWN LANNING - HHH RANCH	22-23	08/11/2022	Horse Camps	101.44.6100.452.30700	2,800.00
TAHO SPORTSWEAR	22TS3122	08/11/2022	Safety Camp tees	101.44.6100.452.60045	804.10
FIRSTSCRIBE	257736	08/11/2022	ROWay web application	101.43.5100.442.40044	250.00
GOPHER LAWN AND SNOW SE...	2608	08/11/2022	lawn care at cemetery	101.44.6000.451.30700	130.00
GOPHER LAWN AND SNOW SE...	2609	08/11/2022	lawn care for ditches	101.44.6000.451.30700	125.00
ASPEN MILLS	297689	08/11/2022	Uniform- Schiltz	101.42.4000.421.60045	1,309.00
VERIFIED HOLDINGS, LLC	333312	08/11/2022	Preemployment background ch...	101.41.1100.413.30500	588.00
US INTERNET	3383130	08/11/2022	Email spam filtering	101.47.1400.413.40035	230.00
ABDO, LLP	459602	08/11/2022	Process Reviews-25% of Contra...	101.41.2000.415.30700	5,362.50
MN LIFE INSURANCE CO	514437	08/11/2022	Premium 8.2022	101.203.2030900	3,930.11
MN LIFE INSURANCE CO	514437	08/11/2022	Premium-COBRA 8.2022	101.203.2030910	555.83
LOCAL GOVERNMENT INFORM...	52356	08/11/2022	Internet access	101.47.1400.413.40035	1,896.00
LOCAL GOVERNMENT INFORM...	52466	08/11/2022	Axon/MCD	101.42.4000.421.70501	2,275.00
LOCAL GOVERNMENT INFORM...	52474	08/11/2022	invoice for Logis	101.42.4200.423.30700	526.00
LOCAL GOVERNMENT INFORM...	52532	08/11/2022	Axon CAD Integration Set-up	101.42.4000.421.70501	32.50
NORTHERN SAFETY TECHNOLO...	54318	08/11/2022	Magnetic Mic Unit	101.42.4000.421.40042	132.00
HILLYARD INC	604823442	08/11/2022	paper towels St 1 and 3	101.42.4200.423.60011	180.55
LAWMAN BADGE COMPANY	6117	08/11/2022	Badge repairs (3604&3602)	101.42.4000.421.60045	278.00
BIG TOP RENTAL, INC.	69623	08/11/2022	July 2022 port-a-potties	101.44.6000.451.40065	3,641.00
ENEBAK CONSTRUCTION COMP...	7/20/2022	08/11/2022	Permit refund #PRPL20220023...	101.45.0000.3222000	139.00
OKER INVESTMENTS	7/26/2022	08/11/2022	refuse removal	101.45.3000.419.30700	149.00
NORTHERN STAR COUNCIL	7/27/2022	08/11/2022	Explorer Membership fees	101.42.4000.421.50078	345.00
KENISON, TERRI	7/31/2022	08/11/2022	cleaning stations 1, 2 & 3	101.42.4200.423.30700	1,600.00
CULLIGAN	7/31/2022 98459100	08/11/2022	bottled water service fee	101.42.4200.423.30700	6.03
CULLIGAN	7/31/2022 98459118	08/11/2022	bottled water St 3	101.42.4200.423.60065	48.55
CULLIGAN	7/31/2022 98603467	08/11/2022	bottled water St 2	101.42.4200.423.60065	95.21
ST. PAUL PIONEER PRESS	722572521	08/11/2022	Notice of PAT 2022 Primary Elec...	101.41.1200.414.50025	17.39
ST. PAUL PIONEER PRESS	722572521	08/11/2022	MS River Corridor Critical Area ...	101.45.3200.419.50025	65.80
ST. PAUL PIONEER PRESS	722572521	08/11/2022	Notice of Public Hearing - Tent ...	101.45.3200.419.50025	25.38
KINDER FIT LLC	7486	08/11/2022	May - June classes	101.44.6100.454.30700	1,365.00
KINDER FIT LLC	7573	08/11/2022	June-July classes	101.44.6100.454.30700	1,105.00
BONFE'S PLUMBING	8/1/2022	08/11/2022	Permit refund	101.45.0000.3224000	65.60
MN DEPT OF LABOR & INDUSTRY	8/9/2022	08/11/2022	Monthly surcharge 7.2022	101.207.2070100	5,431.72
MN DEPT OF LABOR & INDUSTRY	8/9/2022CR	08/11/2022	Rebate for timely payment	101.41.0000.3414000	-25.00
HOLIDAY COMPANIES	80901072200	08/11/2022	Squad Washes 6.2022	101.42.4000.421.40041	110.00
HOLIDAY COMPANIES	80901082200	08/11/2022	Squad Washes 7.2022	101.42.4000.421.40041	95.00
SAFETYFIRST SPECIALTY CONTR...	8203	08/11/2022	post inspection playground audi...	101.44.6000.451.30700	1,490.00
ADVANCED SPORTSWEAR, INC.	8528	08/11/2022	Embroidery	101.45.3300.419.60045	60.00
UNIFIRST CORPORATION	900709441	08/11/2022	Streets Uniforms	101.43.5200.443.60045	30.71
UNIFIRST CORPORATION	900709441	08/11/2022	Parks Uniforms	101.44.6000.451.60045	14.24
EHLERS AND ASSOCIATES, INC.	91075	08/11/2022	2022 FMP Update	101.41.2000.415.30700	4,290.00
PUBLIC SAFETY EQUIPMENT, LL...	9121	08/11/2022	Radar Certification	101.42.4000.421.60065	608.00
POTTERS INDUSTRIES INC	91375178	08/11/2022	Traffic Paint Supplies	101.43.5200.443.60016	1,936.00
GRAINGER	9367111425	08/11/2022	Sign Supplies	101.43.5200.443.60016	72.82
GRAINGER	9387373286	08/11/2022	Sign Supplies	101.43.5200.443.60016	53.85
GRAINGER	9387373294	08/11/2022	Sign Supplies	101.43.5200.443.60016	46.75
GERTENS	98270/6	08/11/2022	rock for 70th & Cahill	101.44.6000.451.60016	131.85

Expense Approval Report

Payment Dates: 8/3/2022 - 8/16/2022

Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
GERTENS	98278/6	08/11/2022	limestone	101.44.6000.451.60016	43.95
VERIZON WIRELESS	9911875557	08/11/2022	Cell phones	101.47.1400.413.50020	458.61
STREICHER'S	I1582861	08/11/2022	Streamligh Battery	101.42.4000.421.60045	24.99
DAKOTA COMMUNICATIONS C...	IG2022-09	08/11/2022	DCC Sept.	101.42.4000.421.70502	36,731.70
DAKOTA COMMUNICATIONS C...	IG2022-09	08/11/2022	general fund fees for DCC	101.42.4200.423.70502	4,081.30
GEOTAB USA, INC.	IN313323	08/11/2022	ProPlus Plan + Support	101.42.4000.421.70501	226.44
MACQUEEN EMERGENCY GRO...	P02844	08/11/2022	fixing SCBA unit	101.42.4200.423.40042	573.42
MACQUEEN EMERGENCY GRO...	P02847	08/11/2022	freight and labor for part for SC...	101.42.4200.423.30700	74.65
MACQUEEN EMERGENCY GRO...	P03067	08/11/2022	gas detector	101.42.4200.423.60040	886.19
TRI-STATE BOBCAT INC.	R33193	08/11/2022	Equipment rental - loader & bu...	101.43.5100.442.40050	2,087.00
KIESLER POLICE SUPPLY, INC	S102951	08/11/2022	New Glocks (50)	101.42.4000.421.80800	24,122.50
KIESLER POLICE SUPPLY, INC	S102951CR	08/11/2022	Less: Trade Ins	101.42.4000.421.80800	-15,530.00
Fund 101 - GENERAL FUND Total:					567,206.91

Fund: 204 - RECREATION FUND

IGH SENIOR CLUB	8/5/2022	08/11/2022	July 2022 payment	204.227.2271000	345.00
Fund 204 - RECREATION FUND Total:					345.00

Fund: 205 - COMMUNITY CENTER

SOTO, ALYSSA	12/03/2020	12/29/2020	Covid closure	205.44.0000.3493501	43.32
GOSKI, MELISSA	12/04/2020	12/29/2020	Covid closure	205.44.0000.3493501	104.00
TWIN SOURCE SUPPLY	00498355	08/11/2022	cleaning supplies	205.44.6200.453.60011	86.33
TWIN SOURCE SUPPLY	00498355	08/11/2022	cleaning supplies	205.44.6200.453.60011	86.33
PROFESSIONAL WIRELESS CO...	113740	08/11/2022	new radios for maintenance sta...	205.44.6200.453.60040	3,929.68
PROFESSIONAL WIRELESS CO...	113740	08/11/2022	new radios for maintenance sta...	205.44.6200.453.60040	3,929.67
GARTNER REFRIGERATION & M...	12448369	08/11/2022	PM agreement	205.44.6200.453.40040	2,125.00
FIRST IMPRESSION GROUP	132309	08/11/2022	generic personal trainer bus card	205.44.6200.453.60065	65.00
FIRST IMPRESSION GROUP	132515P	08/11/2022	postage for fall brochure	205.44.6200.453.50035	1,822.45
ULINE	151331326	08/11/2022	rack decking	205.44.6200.453.60040	95.77
ULINE	151331326	08/11/2022	rack decking	205.44.6200.453.60040	95.76
ULINE	151331326	08/11/2022	safety equipment	205.44.6200.453.60045	85.54
ULINE	151331326	08/11/2022	safety equipment	205.44.6200.453.60045	85.53
TOTAL CONSTRUCTION & EQUIP.	33955	08/11/2022	pool filter pump repair	205.44.6200.453.40040	418.01
NASSEFF PLUMBING & HEATING..	43525	08/11/2022	VMCC quarterly PM	205.44.6200.453.40040	391.00
NASSEFF PLUMBING & HEATING..	43525	08/11/2022	VMCC quarterly PM	205.44.6200.453.40040	391.00
GLOBAL SPECIALTY CONTRACT...	7/21/2022	08/11/2022	Pay Voucher #1, project 2022-05	205.44.6200.453.80300	411,350.00
MEDICINE LAKE TOURS	8/5/2022	08/11/2022	Taylors Falls Cruise	205.44.6200.453.50090	720.00
WIESE, ANGELINE	8/8/2022	08/11/2022	Avery Refund - system overchar...	205.44.0000.3496000	720.00
WIESE, ANGELINE	8/8/2022	08/11/2022	Isla Refund - system overcharge...	205.44.0000.3496000	755.00
GRAINGER	9375138469	08/11/2022	toilet parts	205.44.6200.453.60016	41.64
GRAINGER	9401113858	08/11/2022	caster swivels	205.44.6200.453.60016	14.98
TWIN SOURCE SUPPLY	957.06	08/11/2022	cleaning supplies	205.44.6200.453.60011	478.53
TWIN SOURCE SUPPLY	957.06	08/11/2022	cleaning supplies	205.44.6200.453.60011	478.53
ACTIVE NETWORK, LLC	CB202112_0118	08/11/2022	Credit card chargeback	205.44.0000.3490100	90.00
ACTIVE NETWORK, LLC	CB202201_0116	08/11/2022	Credit card chargeback	205.44.0000.3490100	90.00
ACTIVE NETWORK, LLC	CB2022MAR_0115	08/11/2022	CC chgbk	205.44.0000.3493501	68.00
Fund 205 - COMMUNITY CENTER Total:					428,561.07

Fund: 402 - PARK ACQ. & DEV. FUND

ST. PAUL PIONEER PRESS	722572521	08/11/2022	Advert for bid Heritage Village ...	402.44.6000.451.80300	77.08
Fund 402 - PARK ACQ. & DEV. FUND Total:					77.08

Fund: 425 - CONCORD BLVD FLOODPLAIN

DCA TITLE	53382	08/11/2022	Title work re 6460 Doffing Ave ...	425.72.5900.725.30700	1,246.75
Fund 425 - CONCORD BLVD FLOODPLAIN Total:					1,246.75

Fund: 437 - PW FACILITY REMODEL/EXPANSION

XCEL ENERGY	785812592	08/11/2022	Natural gas - Kundla property	437.73.5900.737.40010	54.21
Fund 437 - PW FACILITY REMODEL/EXPANSION Total:					54.21

Fund: 440 - PAVEMENT MANAGEMENT PROJ

KIMLEY-HORN & ASSOCIATES, I...	21806080	08/11/2022	Consultant Engineer Services	440.74.5900.740.30300	1,701.82
KIMLEY-HORN & ASSOCIATES, I...	21996453	08/11/2022	Construction Consultant Services	440.74.5900.740.30300	13,706.60
PINE BEND PAVING, INC.	22-1778A	08/11/2022	Pavement Management BAP	440.74.5900.740.40046	29,422.20

Expense Approval Report

Payment Dates: 8/3/2022 - 8/16/2022

Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
PINE BEND PAVING, INC.	22-1900A	08/11/2022	Pavement Management BAP	440.74.5900.740.40046	48,582.72
PINE BEND PAVING, INC.	22-1960A	08/11/2022	Pavement Management BAP	440.74.5900.740.40046	47,876.34
PINE BEND PAVING, INC.	22-2039A	08/11/2022	Pavement Management BAP	440.74.5900.740.40046	25,233.00
PINE BEND PAVING, INC.	22-2089A	08/11/2022	Pavement Management BAP	440.74.5900.740.40046	30,140.40
BOLTON & MENK, INC.	292106	08/11/2022	Consultant work Dawn Way - F...	440.74.5900.740.30300	10,485.50
BOLTON & MENK, INC.	293951	08/11/2022	Dawn Way Feasibility Consultan...	440.74.5900.740.30300	13,022.35
SHORT ELLIOTT HENDRICKSON, ...	428638	08/11/2022	SEH Feasibility	440.74.5900.740.30300	4,145.20
SHORT ELLIOTT HENDRICKSON, ...	428639	08/11/2022	SEH Feasibility Consultant Servi...	440.74.5900.740.30300	2,610.44
EMOND SR., JAMES	6/23/2022	08/11/2022	Legal Services for Condemnatio...	440.74.5900.740.30420	2,212.90
DANNER INC	7/6/2022	08/11/2022	Pay Voucher 3, project 2021-16	440.74.5900.740.80300	59,528.47
DANNER INC	7/6/2022	08/11/2022	Pay Voucher 3, project 2016-09F	440.74.5900.740.80300	584,037.52
MCNAMARA CONTRACTING INC	7/7/2022	08/11/2022	Pay Voucher 1, project 2021-09F	440.74.5900.740.80300	34,184.80
MCNAMARA CONTRACTING INC	7/7/2022	08/11/2022	Pay Voucher 1, project 2021-09G	440.74.5900.740.80300	21,042.12
MCNAMARA CONTRACTING INC	7/7/2022	08/11/2022	Pay Voucher 1, project 2021-09E	440.74.5900.740.80300	99,716.56
Fund 440 - PAVEMENT MANAGEMENT PROJ Total:					1,027,648.94
Fund: 441 - STORM WATER MANAGEMENT					
KIMLEY-HORN & ASSOCIATES, I...	21749471	08/11/2022	MS4 Update	441.74.5900.741.30300	2,247.20
BARR ENGINEERING COMPANY	23190328.20-27	08/11/2022	BARR Landlocked Basin Study	441.74.5900.741.30300	2,245.00
Fund 441 - STORM WATER MANAGEMENT Total:					4,492.20
Fund: 446 - NW AREA CAPITAL PROJECTS					
KIMLEY-HORN & ASSOCIATES, I...	21806081	08/11/2022	Construction Phase consultant ...	446.74.5900.746.30300	29,448.86
BOLTON & MENK, INC.	293950	08/11/2022	Construction Consultant Service...	446.74.5900.746.30300	10,666.85
NORTHERN LINES CONTRACTIN...	7/19/2022	08/11/2022	Pay Voucher 6, project 2021-01	446.74.5900.746.80300	42,146.75
Fund 446 - NW AREA CAPITAL PROJECTS Total:					82,262.46
Fund: 448 - NWA - STORM WATER					
KIMLEY-HORN & ASSOCIATES, I...	21931530	08/11/2022	KH stormwater consultant servi...	448.74.5900.748.30300	3,150.00
ST. PAUL PIONEER PRESS	722572521	08/11/2022	Advert for bid Argenta Trail Dra...	448.74.5900.748.50025	90.24
Fund 448 - NWA - STORM WATER Total:					3,240.24
Fund: 501 - WATER UTILITY FUND					
GOODIN COMPANY	02520349-00	08/11/2022	WTP supplies	501.50.7100.512.60016	47.57
DANNER INC	197827	08/11/2022	BAC T test	501.50.7100.512.30700	550.00
CITY OF BLOOMINGTON	20940	08/11/2022	Water Samples	501.50.7100.512.30700	440.00
LONE OAK COMPANIES	90249	08/11/2022	7-2022 Statement Processing (5...	501.50.7100.512.30700	630.49
LONE OAK COMPANIES	90249CR	08/11/2022	7-2022 Postage Credit (50%)	501.50.7100.512.50035	-315.43
LONE OAK COMPANIES	90365	08/11/2022	7-2022 Reminder Notice Proces...	501.50.7100.512.30700	241.40
Fund 501 - WATER UTILITY FUND Total:					1,594.03
Fund: 502 - SEWER UTILITY FUND					
LONE OAK COMPANIES	90249	08/11/2022	7-2022 Statement Processing (5...	502.51.7200.514.30700	630.50
LONE OAK COMPANIES	90249CR	08/11/2022	7-2022 Postage Credit (50%)	502.51.7200.514.50035	-315.44
LONE OAK COMPANIES	90365	08/11/2022	7-2022 Reminder Notice Proces...	502.51.7200.514.30700	241.40
Fund 502 - SEWER UTILITY FUND Total:					556.46
Fund: 503 - INVER WOOD GOLF COURSE					
WITTEK	CM332546	07/07/2022	range tokens returned	503.52.8100.522.60015	-335.61
GERLACH OUTDOOR POWER E...	236673	08/11/2022	equipment repairs	503.52.8600.527.40042	116.12
SUPERIOR TURF SERVICES INC	2635	08/11/2022	pesticide, wetting agent	503.52.8600.527.60035	180.77
NAPA OF INVER GROVE HEIGHTS	321295	08/11/2022	compressor oil	503.52.8600.527.60022	39.58
NAPA OF INVER GROVE HEIGHTS	323734	08/11/2022	equipment repair	503.52.8600.527.40042	167.43
ARTISAN BEER COMPANY	3549620	08/11/2022	beer for resale	503.52.8300.524.76150	406.40
MN GOLF ASSOCIATION, INC.	512570	08/11/2022	adult membership fees	503.52.8000.521.70250	1,080.00
PHILLIPS WINE & SPIRITS	6435113	08/11/2022	alcohol for resale	503.52.8300.524.76150	138.40
WINFIELD SOLUTIONS, LLC	65115045	08/11/2022	fairway fertilizer	503.52.8600.527.60030	8,710.31
WINFIELD SOLUTIONS, LLC	65147691	08/11/2022	fertilizer	503.52.8600.527.60030	172.28
BIG TOP RENTAL, INC.	68930	08/11/2022	GC port a potties - June 2022	503.52.8600.527.40065	149.98
VERSATILE VEHICLES, INC.	83950	08/11/2022	equipment repairs	503.52.8600.527.40042	172.02
WITTEK	INV98303	08/11/2022	range ball baskets	503.52.8100.522.60015	397.52
Fund 503 - INVER WOOD GOLF COURSE Total:					11,395.20

Expense Approval Report

Payment Dates: 8/3/2022 - 8/16/2022

Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
Fund: 602 - RISK MANAGEMENT					
HEPPNER'S AUTO BODY	59935	08/11/2022	Fire Squad Claim 113325	602.00.2100.415.40048	1,973.00
Fund 602 - RISK MANAGEMENT Total:					1,973.00
Fund: 603 - CENTRAL EQUIPMENT					
DIAMOND MOWERS INC	0224481-IN	08/11/2022	Parts for mower	603.00.5300.444.40041	865.48
KIMBALL MIDWEST	100119244	08/11/2022	Shop supplies - cleaner	603.00.5300.444.60012	85.80
KIMBALL MIDWEST	100127809	08/11/2022	shop supplies - caps, plugs, glov...	603.00.5300.444.60012	326.00
KIMBALL MIDWEST	100138451	08/11/2022	Shop suuplies	603.00.5300.444.60012	44.58
KIMBALL MIDWEST	100156436	08/11/2022	Shop suuplies	603.00.5300.444.60012	50.25
EMERGENCY APPARATUS MAIN...	124149	08/11/2022	Fire Truck parts	603.00.5300.444.40042	497.93
S2 SERVICES	1498	08/11/2022	tile walls and floor	603.00.5300.444.40040	2,261.60
TITAN MACHINERY	17241668	08/11/2022	Grader repairs - labor & supplies	603.00.5300.444.40042	1,720.10
FACTORY MOTOR PARTS COMP...	1-7781996	08/11/2022	Shop stock	603.140.1450050	242.84
POMP'S TIRE SERVICE, INC.	210605420	08/11/2022	Pickup truck tires	603.00.5300.444.60014	297.26
STPD, LLC	224528	08/11/2022	Fire Truck parts	603.00.5300.444.40041	950.00
STPD, LLC	224566	08/11/2022	Fire Truck alternator repair	603.00.5300.444.40041	2,175.00
WORLD FUEL SERVICES	301029065571-41801	08/11/2022	Stock Oil	603.140.1450050	1,074.17
NUSS TRUCK AND EQUIPMENT	4707368P	08/11/2022	Dump Truck parts - Brake spider	603.00.5300.444.40041	194.35
NUSS TRUCK AND EQUIPMENT	4716417P	08/11/2022	Stock Filters	603.140.1450050	310.12
NUSS TRUCK AND EQUIPMENT	4718155P	08/11/2022	Dump Truck parts	603.00.5300.444.40041	675.66
INVER GROVE FORD	5317298	08/11/2022	Fire Truck parts	603.00.5300.444.40041	428.24
INVER GROVE FORD	5317301	08/11/2022	Fire Truck parts	603.00.5300.444.40041	349.60
STEPP MANUFACTURING CO. I...	61362	08/11/2022	Tack Oil Trailer	603.00.5300.444.40041	186.79
STEPP MANUFACTURING CO. I...	61399	08/11/2022	322 Tack Trailer parts	603.00.5300.444.40041	149.49
THE REINALT- THOMAS CORPO...	6174290	08/11/2022	Staff car tires	603.00.5300.444.60014	452.00
HANCO CORPORATION	633232	08/11/2022	Shop supplies	603.00.5300.444.60012	178.03
INVER GROVE FORD	6369855	08/11/2022	F550 Engine Repair	603.00.5300.444.40042	2,241.57
INVER GROVE FORD	6370385	08/11/2022	Squad car alignment	603.00.5300.444.40041	209.99
COMO LUBE & SUPPLIES	688436	08/11/2022	Used Oil	603.00.5300.444.40025	35.00
UNIFIRST CORPORATION	900709441	08/11/2022	Other rental supplies - rags, bag...	603.00.5300.444.40065	109.40
UNIFIRST CORPORATION	900709441	08/11/2022	Central Equip Uniforms	603.00.5300.444.60045	28.96
GRAINGER	9377757449	08/11/2022	Shop supplies	603.00.5300.444.60012	140.50
MACQUEEN EMERGENCY GRO...	P07332	08/11/2022	Fire Truck parts - air cleaner, ma...	603.00.5300.444.40041	37.35
MACQUEEN EMERGENCY GRO...	P07336	08/11/2022	Fire Truck parts - air cleaner	603.00.5300.444.40041	201.11
MACQUEEN EQUIPMENT INC	P43731	08/11/2022	Sweeper parts - wiper blades	603.00.5300.444.40041	101.21
MACQUEEN EQUIPMENT INC	P43802	08/11/2022	Sweeper	603.00.5300.444.40041	179.17
TRI-STATE BOBCAT INC.	P78712	08/11/2022	Skid Steer repair - antenna	603.00.5300.444.40041	36.90
TRI-STATE BOBCAT INC.	P78803	08/11/2022	Skid steer parts - couplers	603.00.5300.444.40041	182.10
TRI-STATE BOBCAT INC.	P79009	08/11/2022	Toolcat parts	603.00.5300.444.40041	421.12
TRI-STATE BOBCAT INC.	P79200	08/11/2022	Toolcat parts	603.00.5300.444.40041	197.88
TRI-STATE BOBCAT INC.	P79360	08/11/2022	Skid steer repairs	603.00.5300.444.40041	118.48
INTERSTATE POWERSYSTEMS	R001189785-01	08/11/2022	L13 Fire Truck Engine Injectors ...	603.00.5300.444.40042	12,764.15
CENTENNIAL GLASS	W00012051	08/11/2022	Squad car windshield & parts	603.00.5300.444.40042	430.00
CENTENNIAL GLASS	W00012086	08/11/2022	Squad car parts	603.00.5300.444.40042	320.00
TRI-STATE BOBCAT INC.	W97538	08/11/2022	Skid Steer parts	603.00.5300.444.40042	744.56
Fund 603 - CENTRAL EQUIPMENT Total:					32,014.74
Fund: 604 - CENTRAL STORES					
QUADIENT LEASING USA, INC.	N9467124	08/11/2022	Postage machine lease	604.00.2200.416.40050	825.00
Fund 604 - CENTRAL STORES Total:					825.00
Fund: 605 - CITY FACILITIES					
PROFESSIONAL WIRELESS CO...	113740	08/11/2022	new radios for maintenance sta...	605.00.7500.460.60040	413.65
HUEBSCH SERVICES	20164702	08/11/2022	lobby mats	605.00.7500.460.40065	166.74
OWENS COMPANIES	30332	08/11/2022	compressor repair	605.00.7500.460.40040	571.59
OWENS COMPANIES	30395	08/11/2022	replaced thermosat at FS#2	605.00.7500.460.40040	1,006.48
OWENS COMPANIES	30520	08/11/2022	repairs to condenser at FS	605.00.7500.460.40040	7,155.00
NASSEFF PLUMBING & HEATING..	43524	08/11/2022	PD semi-annual PM invoice	605.00.7500.460.40040	1,340.00
HILLYARD INC	604831543	08/11/2022	cleaning supplies	605.00.7500.460.60011	983.75
GRAINGER	9375138451	08/11/2022	CH & FS HVAC belts	605.00.7500.460.60016	133.05
GRAINGER	9389238404	08/11/2022	boot brushes	605.00.7500.460.40040	159.16

Expense Approval Report

Payment Dates: 8/3/2022 - 8/16/2022

Vendor Name	Payable Number	Post Date	Description (Item)	Account Number	Amount
GRAINGER	9392309440	08/11/2022	tools	605.00.7500.460.60040	99.58
Fund 605 - CITY FACILITIES Total:					12,029.00
Fund: 606 - TECHNOLOGY FUND					
ABDO, LLP	459602	08/11/2022	Software Eval-25% of Contract	606.00.1400.413.30700	1,862.50
ABDO, LLP	459602	08/11/2022	Software Reconfig-25% of Cont...	606.00.1400.413.30700	3,025.00
Fund 606 - TECHNOLOGY FUND Total:					4,887.50
Fund: 702 - ESCROW FUND					
CALTON, ANDY	1/3/20	01/14/2020	Escrow Close	702.229.2282203	1,310.00
SHORT ELLIOTT HENDRICKSON, ...	1691.94	08/11/2022	AT&T Site Upgrades	702.229.2294902	1,691.94
BARR ENGINEERING COMPANY	23190328.22-4	08/11/2022	BARR - Storm water review	702.229.2287503	63.50
BARR ENGINEERING COMPANY	23190328.22-4	08/11/2022	BARR - Storm Water Review	702.229.2306303	2,490.00
BOLTON & MENK, INC.	293952	08/11/2022	Peltier Reserve Construction Co...	702.229.2304103	6,485.50
SHORT ELLIOTT HENDRICKSON, ...	429582	08/11/2022	Plan Review	702.229.2306403	2,054.00
WILFRED KRECH	6/10/2022	08/11/2022	Escrow Release	702.229.2308502	18,074.40
P.A.C	7/15/2022	08/11/2022	Escrow Release	702.229.2304903	1,500.00
P.A.C	7/15/2022	08/11/2022	Escrow / LOC Release	702.229.2305003	5,000.00
JM HAULING LLC	7/19/2022	08/11/2022	Escrow Release	702.229.2305703	1,500.00
LDK BUILDERS, INC.	7/27/2022	08/11/2022	Escrow Release	702.229.2298903	1,105.58
LDK BUILDERS, INC.	7/27/2022	08/11/2022	Escrow / LOC Release	702.229.2299003	10,000.00
VALLEY HOMESTEAD PROPERTI...	7/6/2022	08/11/2022	Escrow / LOC Reduction	702.229.2291601	40,500.00
ST. PAUL PIONEER PRESS	722572521	08/11/2022	Silverstar Car Wash - Case 22-2...	702.229.2305903	70.50
EHLERS AND ASSOCIATES, INC.	91075	08/11/2022	Set Up Template-Tax Abatemen...	702.229.2295903	520.00
Fund 702 - ESCROW FUND Total:					92,365.42
Grand Total:					2,272,775.21



Request for Council Action

SUBJECT: Approval of Personnel Actions

MEETING DATE: August 22, 2022

ITEM TYPE: Consent Agenda

CONTACT: Cora Bauer, HR Coordinator, 651.450.2490

ACTION REQUESTED

The Council is asked to confirm and approve the personnel actions listed below.

BACKGROUND

Full-time Employment:

Suzie Seabright-Hofmeister, Aquatics Coordinator

Seasonal/Temporary Employment:

Hunter Collins, Golf Course Outside Services

Mary Burch Mattson, Archery Instructor

Stephanie Ross, Recreation Instructor I

Megan Thiebold, Recreation Instructor I

Voluntary Resignations, Retirements and/or Terminations:

Shaadiyah Swenson, Fitness Instructor

Grace Sullivan, Fitness Attendant

Claudia Biebert, Fitness Worker

Laurn Roszak, Guest Service Worker

Careline McLaughlin, Guest Service Worker

Mikayla Wood, Childcare Worker

FISCAL IMPACT

All positions to be filled are funded within the adopted City budget.

RECOMMENDATION

Staff recommends approval of the above-listed personnel actions.

ATTACHMENTS

None



Request for Council Action

SUBJECT: **Approval of Massage Therapist Licenses**

MEETING DATE: August 22, 2022

ITEM TYPE: Consent Agenda

CONTACT: Katie Malott, Deputy City Clerk, 651.450.2470

ACTION REQUESTED

The Council is asked to approve two new massage therapist licenses for therapists hired by OyeSpa LCC and Inver Grove Heights Chiropractic.

BACKGROUND

Two massage therapist licenses have been submitted to the City of Inver Grove Heights. Alexander Dimbo has applied for a new massage therapist license to work at OyeSpa LLC, 7741 Amana Trail, in Inver Grove Heights. Michelle Waites has applied for a new massage therapist license to work at Inver Grove Heights Chiropractic, 2940 65th Street East, in Inver Grove Heights. The applications were accompanied by the necessary license fees and liability insurance certificates. All background investigations were completed by the Police Department with no basis found for denial of the licenses.

FISCAL IMPACT

None.

RECOMMENDATION

Staff recommends approval of the licenses.

ATTACHMENTS

None

Request for Council Action

SUBJECT: **Accept the Dakota County Regional Roadway System Visioning Study Update**

MEETING DATE: August 22, 2022

ITEM TYPE: Consent Agenda

CONTACT: Brian Connolly, Public Works Director, 651.450.2571

ACTION REQUESTED

The Council is asked to adopt the attached Resolution, accepting the Dakota County Regional Roadway System Visioning Study (RRSVS) update, and support the recommendations contained therein.

BACKGROUND

On October 25, 2021, the City Council authorized entering into a Joint Powers Agreement with Dakota County and the City of Eagan to perform an update to the Regional Roadway System Visioning Study (RRSVS). The study effort was led by Dakota County, with input from the partner cities and the Minnesota Department of Transportation (MnDOT), and serves as an update to the original RRSVS study, which was completed and adopted by the IGH City Council in 2010.

Dakota County staff, along with their consultant engineer (Kimley-Horn & Associates, Inc.) provided progress updates regarding the RRSVS at the February 2022 and June 2022 City Council work sessions. An online comment survey was posted, and public open houses were held on November 9, 2021 and June 1, 2022 to present updates and gather input from the general public. This input has subsequently been integrated into the RRSVS Update.

A summary of the report and its recommendations is attached, along with a copy of the complete report.

The RRSVS Update is scheduled for County Board consideration in September. The participating cities (Eagan, Inver Grove Heights, Mendota Heights, and Sunfish Lake) have been asked to receive the RRSVS Update at their respective Council meetings in August and are being asked to accept the recommendations contained therein.

FISCAL IMPACT

There are no fiscal impacts as part of this Resolution. Future comprehensive planning and capital improvement efforts performed by staff will determine any fiscal impact on a project-by-project basis, and will be brought before the City Council for project development consideration.

RECOMMENDATION

Staff recommends adoption of the attached Resolution, accepting the Regional Roadway System Visioning Study Update, and supporting the recommendations contained therein.

ATTACHMENTS

1. Resolution - Accept RRSVS and Adopt Recommendations
2. Staff Memo Summarizing Report
3. RRSVS Update Final Report

**CITY OF INVER GROVE HEIGHTS
DAKOTA COUNTY, MINNESOTA**

**RESOLUTION ACCEPTING THE REGIONAL ROADWAY SYSTEM VISIONING STUDY UPDATE
AND SUPPORTING THE RECOMMENDATIONS CONTAINED THEREIN**

**CITY PROJECT NO. 2021-17
(FORMERLY CITY PROJECT NO. 2018-17)**

RESOLUTION NO. _____

WHEREAS, the Regional Roadway System Visioning Study (RRSVS) was completed in 2010, and the recommendations adopted by the City Council on July 10, 2010; and

WHEREAS, the intent of the study was to develop a comprehensive and unified transportation vision to support development and guide future efforts of the cities of Eagan, Inver Grove Heights, Mendota Heights, and Sunfish Lake, Dakota County, and the Minnesota Department of Transportation (MnDOT) to plan, fund, and implement transportation system improvements; and

WHEREAS, due to the implementation of certain improvements recommended in the RRSVS and the type, location, and density of development that has occurred in the study area since 2010, there was a mutual desire among these same study participants to review and update the RRSVS to account for these changing parameters; and

WHEREAS, on October 25, 2021, the City Council approved a Joint Powers Agreement with the City of Eagan and Dakota County to perform an update to the Regional Roadway System Visioning Study (RRSVS); and

WHEREAS, the engineering consultant firm of Kimley Horn was selected to conduct the RRSVS update; and.

WHEREAS, in coordination with engineering and public works staff from the participating cities, Dakota County, and MnDOT, Kimley Horn has conducted technical analysis of future development, traffic generation and patterns, and alternative transportation improvement initiatives in Eagan, Inver Grove Heights, and surrounding communities; and

WHEREAS, public input was obtained through online survey solicitation, public open houses on November 9, 2021 and June 1, 2022, and two worksession presentations to the City Council on February 7, 2022 and June 6, 2022; and

WHEREAS, Kimley Horn has concluded its final preparation of a report, entitled the Regional Roadway System Visioning Study Update, dated August 2022; and

WHEREAS, staff have reviewed the report and the recommendations contained within, and have found the recommendations to be consistent with the Inver Grove Heights 2040 Comprehensive Plan.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF INVER GROVE HEIGHTS THAT:

1. The Regional Roadway System Visioning Study Update, dated August 2022, is hereby accepted.
2. The recommendations contained within the Regional Roadway System Visioning Study Update pertaining to the City of Inver Grove Heights are supported by the City Council.

3. Staff are directed to take the Regional Roadway System Visioning Study Update recommendations into account in future comprehensive planning, capital improvement planning, and cooperative feasibility study and design efforts with partner agencies including Dakota County, MnDOT, and adjacent cities.

Adopted by the City Council of the City of Inver Grove Heights this 22nd day of August 2022.

Tom Bartholomew, Mayor

ATTEST:

Rebecca Kiernan, City Clerk



City Council Memorandum

To: Mayor and City Council
From: Brian Connolly, Public Works Director
Subject: Regional Roadway System Visioning Study (RRSVS) Update
Date: August 22, 2022 Regular City Council Meeting

BACKGROUND:

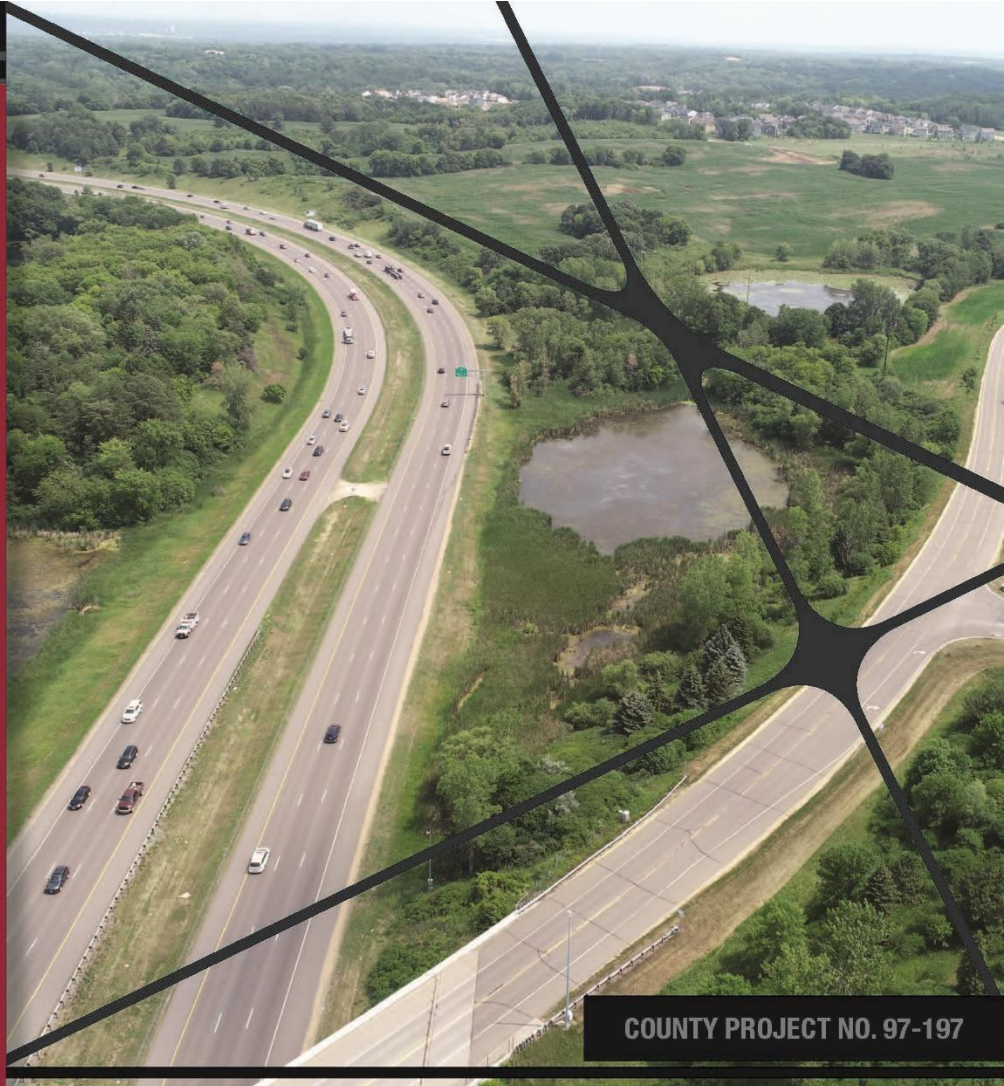
- The original Regional Roadway System Visioning Study (RRSVS), completed in 2010, was a joint planning effort by Dakota County, The Minnesota Department of Transportation (MnDOT), and the cities of Eagan, Inver Grove Heights, Mendota Heights, and Sunfish Lake.
- In 2010, the northwest area of Inver Grove Heights and the northeast section of Eagan represented one of the largest remaining undeveloped areas along the I-494/I-694 corridor in the Twin Cities. Significant impending growth was anticipated. A comprehensive and unified transportation vision was desirable to support development and to guide future efforts of the cities, county, and MnDOT to plan, fund, and implement transportation improvements. A study area was identified to include the undeveloped areas in Eagan and Inver Grove Heights as well as the fully developed communities of Mendota Heights and Sunfish Lake. The primary area of focus was in an area bounded by I-494 on the north, TH 3 on the east, TH 55 to the south, and TH 149 to the west. This is the area where the most intense development over the following 20 years (2010-2030) was anticipated to occur,
- On July 12, 2010, the City Council adopted the study recommendations of the final report from the original RRSVS. As a result, ongoing development and roadway improvements that have occurred over the past 12 years in the Northwest Area have been guided, in part, due to the recommendations of the original RRSVS report. Such projects within Inver Grove Heights have included the completion of the intersection realignment and signal improvements at TH 55 and Argenta Trail (2016-2017), the extension of 65th Street from Argenta Trail to TH 3 (2017-2022), and the current improvements occurring along 70th Street and Argenta Trail (2022-2023).
- On October 25, 2021, the City Council approved a joint powers agreement for the city to participate in an update to the RRSVS with the same agencies as the 2010 study.
- The recommendations from the current RRSVS Update are intended to continue the success of the original study and to guide the planning and implementation of transportation improvements within the study area over the next 20 years (2022-2042).
- Online comment opportunities were provided at various times during the past year. Open houses were held on November 9, 2021, and June 1, 2022, to present the various draft updates and to solicit additional public feedback.
- Progress updates were presented to the Inver Grove Heights City Council at worksessions on February 7, 2022 and June 6, 2022 to solicit further feedback, address questions, and to guide key portions of the study content related to transportation system recommendations within the City of Inver Grove Heights.

REPORT SUMMARY RECOMMENDATIONS:

- The update recommendations within Inver Grove Heights remain similar to the original 2010 study for system recommendations that have not yet been implemented, and include the following:
 1. Interchange at I-494/Argenta Trail (CSAH 63).
 2. Expand Argenta Trail from 2-lanes to 4-lanes between I-494 and TH 55 upon completion of an interchange at I-494 and Argenta Trail.
 3. Complete a grade-separated interchange at TH 55 and Argenta Trail.
 4. Expand TH 149 from Westcott Road/Argenta Trail to TH 3 from 2-lanes to 4-lanes.
 5. Explore development of a north-south City collector roadway between TH 55/Argenta Trail and County Road 71 (Rich Valley Boulevard) as new development warrants for local roadway access.
 6. Expand TH 3 from 2-lanes to 4-lanes between TH 149 and Diffley Road.
 7. Realignment of 80th Street (CSAH 28) between TH 3 and Babcock Trail.
 8. Expand 70th Street (CSAH 26) from 2-lanes to 3-lanes between TH 3 and Babcock Trail.
 9. Extend 65th Street as a community collector roadway from TH 3 to Babcock Trail.
 10. Extension of 65th Street/Vikings Parkway between Ames Crossing Road (in Eagan) and Argenta Trail (in Inver Grove Heights)
- The study also indicated some roadway improvements that were recommended in 2010 that are ***no longer needed/recommended*** based on current and proposed land use and traffic volumes in the Northwest Area of Inver Grove Heights, including:
 1. Amana Trail (CSAH 28) from Argenta Trail to TH 3 was recommended in 2010 to be upgraded from a 2-lane to a 4-lane configuration. Based on projected development density, the existing 2-lane configuration should accommodate traffic needs for the foreseeable future. As such, this roadway upgrade was not included in the RRSVS Update.
 2. Argenta Trail between I-494 and TH 55 was recommended in 2010 to expand to 6-lanes, but now is only recommended to be converted to a 4-lane roadway (accommodations for the 4-lane expansion included in the 70th Street/Argenta Trail project currently under construction).

STAFF RECOMMENDATIONS:

- The RRSVS Update is scheduled for County Board consideration in September 2022.
- Participating cities (Eagan, Inver Grove Heights, Mendota Heights, and Sunfish Lake) are receiving the RRSVS Update at respective council meetings in August and being asked to accept the recommendations contained therein.
- The RRSVS Update and the associated recommendations have been completed, reviewed by representatives of the Public Works Department, and are recommended for Council consideration in approving the enclosed Resolution.



COUNTY PROJECT NO. 97-197

Regional

Roadway System

VISIONING STUDY UPDATE

PREPARED FOR

Dakota
COUNTY

AUGUST 2022

PREPARED BY

Kimley»Horn



Table of Contents

Introduction	3
Study Purpose	4
Study Process.....	4
Land Use.....	6
Beyond 2040	6
Transportation Conditions.....	8
Transportation Needs.....	8
Traffic Capacity.....	8
Safety.....	11
Roadway Connectivity	13
Transportation Impacts.....	16
Roadway Expansion	16
Environmental Resources.....	17
Development and Evaluation of Transportation Improvements	20
Public Input	24
Open House #1.....	24
Open house #2	24
Recommendations.....	26
Roadway Improvements.....	26
Other Recommendations	31
Implementation.....	33
Appendix: City Council Resolutions.....	34

Introduction

The Regional Roadway System Visioning Study (RRSVS) Update was a joint planning effort by Dakota County, the Minnesota Department of Transportation (MnDOT), and the cities of Eagan, Inver Grove Heights, Mendota Heights, and Sunfish Lake. The recommendations from the RRSVS Update are intended to guide the planning and implementation of transportation improvements within the study area over the next 20 years.

Northeast Eagan and northwest Inver Grove Heights represent one of the largest remaining undeveloped areas along the I-494/I-694 corridor in the Twin Cities. Significant growth is anticipated in the next 20 years, and a unified transportation vision is needed to support development and guide future efforts of the cities, county, and MnDOT to plan, fund, and implement transportation improvements. The study area includes the undeveloped areas in Eagan and Inver Grove Heights as well as the fully developed communities in Mendota Heights and Sunfish Lake, shown in **Figure 1**. The figure also shows that the most intense development is anticipated in the area bounded by I-494 to the north, Trunk Highway (TH) 3 (Robert Trail) to the east, TH 55 (Courthouse Boulevard) to the south, and TH 149 (Dodd Road) to the west.

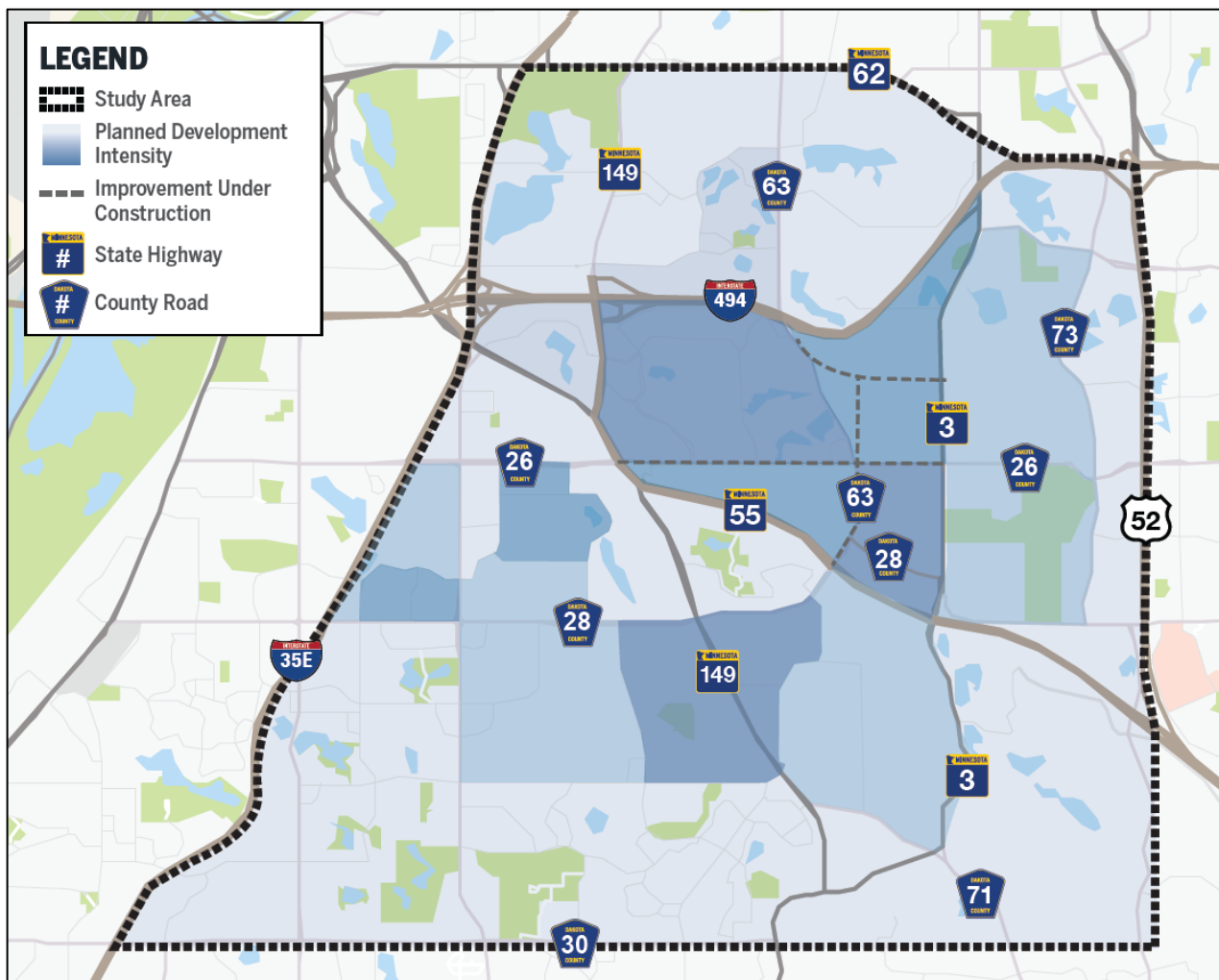


Figure 1. RRSVS Update Study Area

STUDY PURPOSE

The original RRSVS was completed in 2010 and contained 16 recommendations that were based on technical analysis, agency input, and public feedback. An update to the roadway vision was undertaken to assess current transportation conditions and current land use plans in the study area, including:

- Significant development that has occurred in Eagan and Inver Grove Heights since the 2010 RRSVS was completed. In many cases, the development that has occurred is less dense and generates less traffic than was anticipated in the 2010 study.
- Completion of the 2040 Comprehensive Plans in the cities of Eagan, Inver Grove Heights, Mendota Heights, and Sunfish Lake. The land use plans in the Eagan and Inver Grove Heights 2040 Comprehensive Plans included fewer households and jobs in the study area compared to the cities' 2030 Comprehensive Plans.
- Traffic capacity and safety conditions that have changed since 2010.
- Transportation improvements identified in the 2010 RRSVS that have been completed or are under construction, including: reconstruction of the TH 55/County Road (CR) 28 (Yankee Doodle Road/Argenta Trail) intersection; expansion of CR 26 (Lone Oak Road/70th Street W) to four lanes between TH 55 (Courthouse Boulevard) and TH 3 (Robert Trail); reconstruction and realignment of CR 63 (Argenta Trail) between CR 28 (Amana Trail) and I-494; and the construction of 65th Street from TH 3 (Robert Trail) to CR 63 (Argenta Trail).
- Development of the Dakota County 2040 travel demand forecast model, which indicated that the year 2040 daily traffic projections are generally similar to or lower than the previously published 2030 daily traffic volumes. The Dakota County travel demand model reflects county and city 2040 comprehensive plans.

STUDY PROCESS

The RRSVS Update was completed through a process of collecting and analyzing current data, with input provided by the study agencies and the public. The process involved four major steps, as described in the following bullets.

- **Data Collection:**
 - Roadway and intersection traffic volumes
 - Planned roadway improvements
 - Land use plans in city comprehensive plans
 - New developments
 - Forecast traffic growth
 - Public and agency input on current conditions
- **Scenario Modeling and Analysis:**
 - Evaluation of each technical area to identify transportation needs and constraints

- **Develop and Evaluate Planning-Level Transportation Alternatives:**

- Develop and evaluate potential transportation improvements, including 2010 RRSVS recommendations and potential new improvements
- Public and agency input on draft recommendations

- **Adoption of Final Recommendations:**

- To demonstrate concurrence with the study recommendations, the study findings are intended to be adopted by the city councils in Eagan, Inver Grove Heights, Mendota Heights, and Sunfish Lake and by the Dakota County Board.

The following sections of this report provide more information on the data, analysis, and recommendations of the RRSVS Update.

Land Use

The development assumptions used in the RRSVS Update are based on the total population and employment forecasts for each city, which are established by the Metropolitan Council, and the location-specific land uses and intensities shown in the cities' 2040 Comprehensive Plans. The 2018 (existing) and 2040 total development in the cities of Eagan, Inver Grove Heights, Mendota Heights, and Sunfish Lake are summarized in **Table 1**. Development in other communities such as Rosemount and Farmington are included in the traffic forecasts discussed later in this report and the land uses assumptions in these communities match the Dakota County 2040 Transportation Plan.

Table 1. Eagan, Inver Grove Heights, Mendota Heights and Sunfish Lake Forecast Growth

	Year 2018			Year 2040		
	Population (number of residents)	Households (number of households)	Employment (number of jobs)	Population (number of residents)	Households (number of households)	Employment (number of jobs)
Eagan	68,363	27,147	59,600	74,300	30,850	70,000
Inver Grove Heights	35,238	14,196	10,303	46,700	19,800	14,000
Mendota Heights	11,420	4,594	11,279	12,000	5,000	13,700
Sunfish Lake	526	185	3	490	210	10

Source: Metropolitan Council, Dakota County 2040 Transportation Plan, and City of Eagan, City of Inver Grove Heights, City of Mendota Heights, and City of Sunfish Lake 2040 Comprehensive Plans

The Inver Grove Heights 2040 Comprehensive Plan also identified specific land use changes in northwest part of the city (the RRSVS Update study area) compared to the 2030 Comprehensive Plan. The changes were largely a result of market demand for certain land uses types, but also were based on the city's more detailed understanding of site conditions and constraints. The 2040 land use plan in northwest Inver Grove Heights generally reflects a shift towards lower density development and land use types that would be expected to generate traffic at lower rates, such as changes from commercial or industrial land use to residential land use.

Beyond 2040

Beyond Year 2040 development assumptions were established to analyze the full build-out anticipated in northeast Eagan and northwest Inver Grove Heights. Development for Beyond 2040 conditions was based on the remaining developable area, allocation of additional development to those areas based on zoning definitions in each city's comprehensive plan, and input from Eagan and Inver Grove Heights city staff. The summary chart in **Figure 2** and the bullets that follow summarize the key aspects of the Beyond 2040 land use.

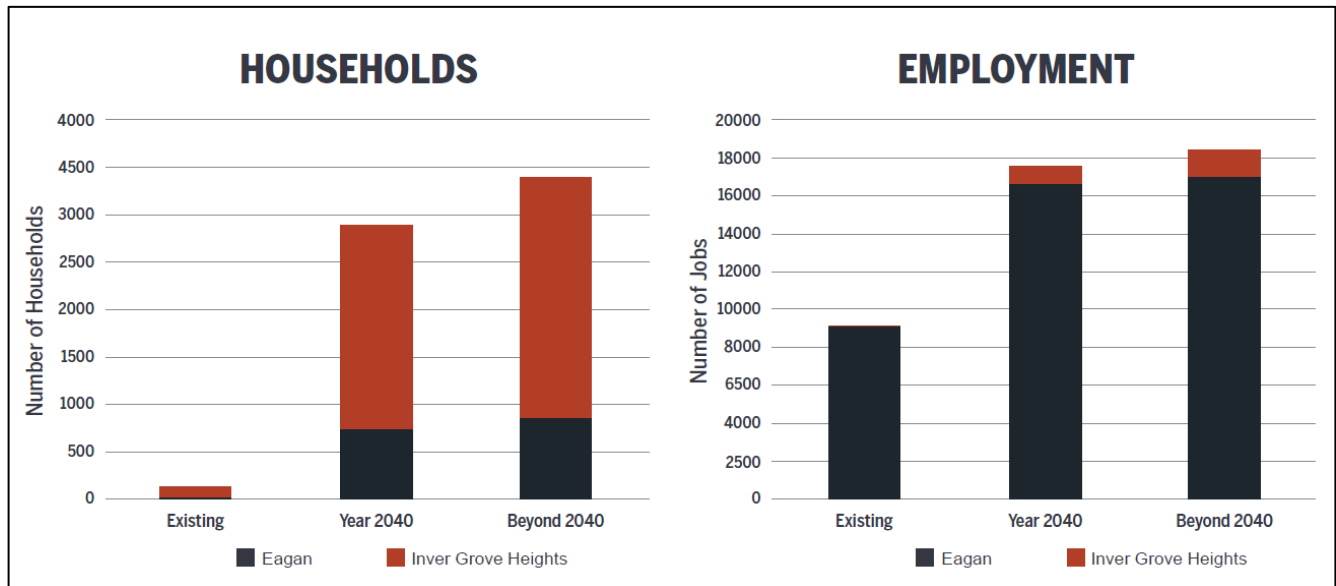


Figure 2. RRSVS Study Area Household and Employment Forecasts

Eagan

- Residential development in the Viking Lakes area will be predominantly in the southern portion of the 200-acre site. An Alternative Urban Areawide Review (AUAR) was prepared for the Vikings Lake area in 2016 and updated in 2021¹.
- Demand for office space remains low. Employment growth in the areas zoned for commercial/industrial would likely be lower traffic generating uses like warehouse and light industrial rather than higher-density office buildings.
- Growth of traditional shopping land uses is not anticipated to be significant in northeast Eagan, however there is likely to be growth in “service offices” which includes uses like insurance/financial, medical/dental offices, and similar activities that generate customer traffic.

Inver Grove Heights

- Residential development is likely to continue at current densities observed in northwest Inver Grove Heights, which are approximately:
 - Low density (single family) residential approximately 2 units per acre.
 - Medium density (townhomes) approximately 9 units per acre.
- Little retail development is anticipated beyond 2040 forecasts.
- Non-retail commercial land uses would be anticipated to be in the mid-range of the allowable densities from the comprehensive plan.

The Beyond 2040 analysis showed that the majority of the RRSVS study area will be developed by 2040, with a relatively small amount of development remaining beyond 2040.

¹ Minnesota Vikings Headquarters and Mixed Use Development AUAR Update, April 2021.
https://www.cityofeagan.com/images/CommunityDevelopment/Planning/MV VenturesAUARUpdate_05112021.pdf

Transportation Conditions

Transportation improvements were identified based on needs and constraints in five key areas:

- Traffic capacity
- Safety
- Roadway connectivity
- Roadway expansion impacts
- Environmental resources

The following sections present the technical analysis of each of these areas. The analysis was used to identify the existing and future transportation needs in the study area and the impacts of potential transportation improvements. The focus of the technical analysis was on county and state highways and city collectors:

- TH 3 (Robert Trail)
- TH 149 (Dodd Road/Jefferson Trail)
- TH 55 (Courthouse Boulevard)
- CR 26 (Lone Oak Road/70th Street W)
- CR 28 (Yankee Doodle Road/80th Street W/Amana Trail)
- CR 63 (Argenta Trail/Delaware Ave)
- CR 71 (Rich Valley Boulevard)
- 65th Street
- Vikings Parkway

These roadways provide the primary transportation infrastructure that support developing areas and connect to the regional transportation network. The capacity and operations of freeways and local neighborhood streets were not part of the RRSVS analysis because they serve inter-regional and local transportation purposes, respectively.

TRANSPORTATION NEEDS

Traffic Capacity

Existing average annual daily traffic volumes (AADT), existing intersection counts, and forecast daily traffic volumes were used to evaluate future traffic operations at the roadway and intersection level. The planning-level traffic capacity thresholds in **Table 2** were used to determine whether additional through lanes (roadway expansion) would be needed to accommodate the expected future traffic volumes. The capacity thresholds are consistent with the 2040 Dakota County Transportation Plan.

Table 2. Roadway Segment Capacity Thresholds

Number of Through Lanes	Approaching Traffic Capacity (vehicles/day)	Maximum Traffic Capacity (vehicles/day)
4 Lanes	31,000	35,000
3 Lanes	15,000	18,000
2 Lanes	8,500	10,000

Intersection capacity was evaluated for 34 intersections in the study area. The capacity analysis was based on the methods outlined in the Highway Capacity Manual (HCM) 6th Edition using Synchro/SimTraffic version 11. The primary inputs of the HCM methodology are the number of lanes and the hourly traffic volumes. The intersection analysis was completed for future year a.m. and p.m. peak hours. The following volume/capacity (v/c) thresholds were used for the intersection evaluations:

- Over Capacity: $v/c > 1.0$
An intersection that is over capacity would have significant congestion and backups. At a traffic signal, vehicles may have to wait through multiple signal cycles.
- Approaching Capacity: $0.85 \leq v/c \leq 1.0$
An intersection approaching capacity would be congested and drivers would experience back-ups and slower traffic.

Pandemic Impacts on Traffic

At the time of the RRSVS Update, traffic volumes and patterns were still being impacted by the COVID-19 pandemic. Total daily traffic volumes in 2021/2022 have been observed to be similar to pre-pandemic levels, however the time-of-day travel patterns continue to be different in 2021/2022 compared to pre-pandemic conditions. Traffic volumes in the morning peak hour have generally been observed to be lower than pre-pandemic conditions, mid-day volumes are generally higher than pre-pandemic conditions, and afternoon peak hour volumes are similar to pre-pandemic conditions. It is not known if peak hour traffic patterns will fully return to pre-pandemic conditions due to permanent changes in the amount of remote work and commuter behaviors, however traffic operations and congestion in the afternoon peak hour have largely returned to pre-pandemic conditions. In some locations the hours of congestion may be shorter, but the congested areas still indicate roadways or intersections with capacity or operations needs. Therefore, traffic volumes and forecasts in the RRSVS Update were not adjusted to specifically account for the effects of the COVID-19 pandemic.

Traffic Forecasts

The 2040 Dakota County Travel Demand Model was used to produce the traffic forecasts used in the traffic capacity analysis. The land use assumptions used in the travel demand model are documented in the Land Use section of this report. The 2040 Visioning Baseline model was used to understand the traffic conditions that would result if all the future development occurred, but no improvements were made to the existing transportation system. The following transportation network assumptions were used in the RRSVS 2040 Visioning Baseline model:

- Existing roadway network was assumed in the study area, including improvements that are currently under construction on CR 26 (Lone Oak Road/70th Street W) and CR 63 (Argenta Trail).
- Recommendations from the 2010 RRSVS that have not yet been implemented, such as an interchange at I-494/CR 63 (Argenta Trail), were not included in the 2040 Visioning Baseline model.

- Programmed roadway improvements outside the study area were included in the 2040 Visioning Baseline model. This includes improvements such as the expansion of 117th Street and paving of CR 73 (Akron Avenue) in Inver Grove Heights.

The 2040 Visioning Baseline forecasts were then used to identify roadway and intersection capacity needs in the study area, as shown in **Figure 3**. The key findings of the 2040 Visioning Baseline capacity analysis were:

- The largest traffic volumes are being generated by the higher intensity development, which is primarily in the area bounded by I-494 to the north, TH 3 (Robert Trail) to the east, TH 55 (Courthouse Boulevard) to the south, and TH 149 (Dodd Road) to the west. Without an interchange on I-494 between TH 149 (Dodd Road) and TH 3 (Robert Trail), traffic will rely on TH 3 (Robert Trail), CR 63 (Argenta Trail/Delaware Avenue) to TH 62 or TH 55, and TH 149 (Dodd Road) to access the regional highway network.
- The signalized intersection at TH 55 (Courthouse Boulevard) and CR 28 (Yankee Doodle Road/Argenta Trail) will have increased congestion as traffic volumes increase. This is a concern because it is the first signalized intersection on TH 55 (Courthouse Boulevard) when approaching from the east.
- The signalized intersections on TH 62 at TH 149 (Dodd Road) and at CR 63 (Delaware Avenue) currently are congested and will have greater traffic pressure in the future if other improvements are not made to the transportation system as the development occurs.

The Beyond 2040 traffic capacity analysis did not identify any additional needs beyond those identified in the 2040 Visioning Baseline.

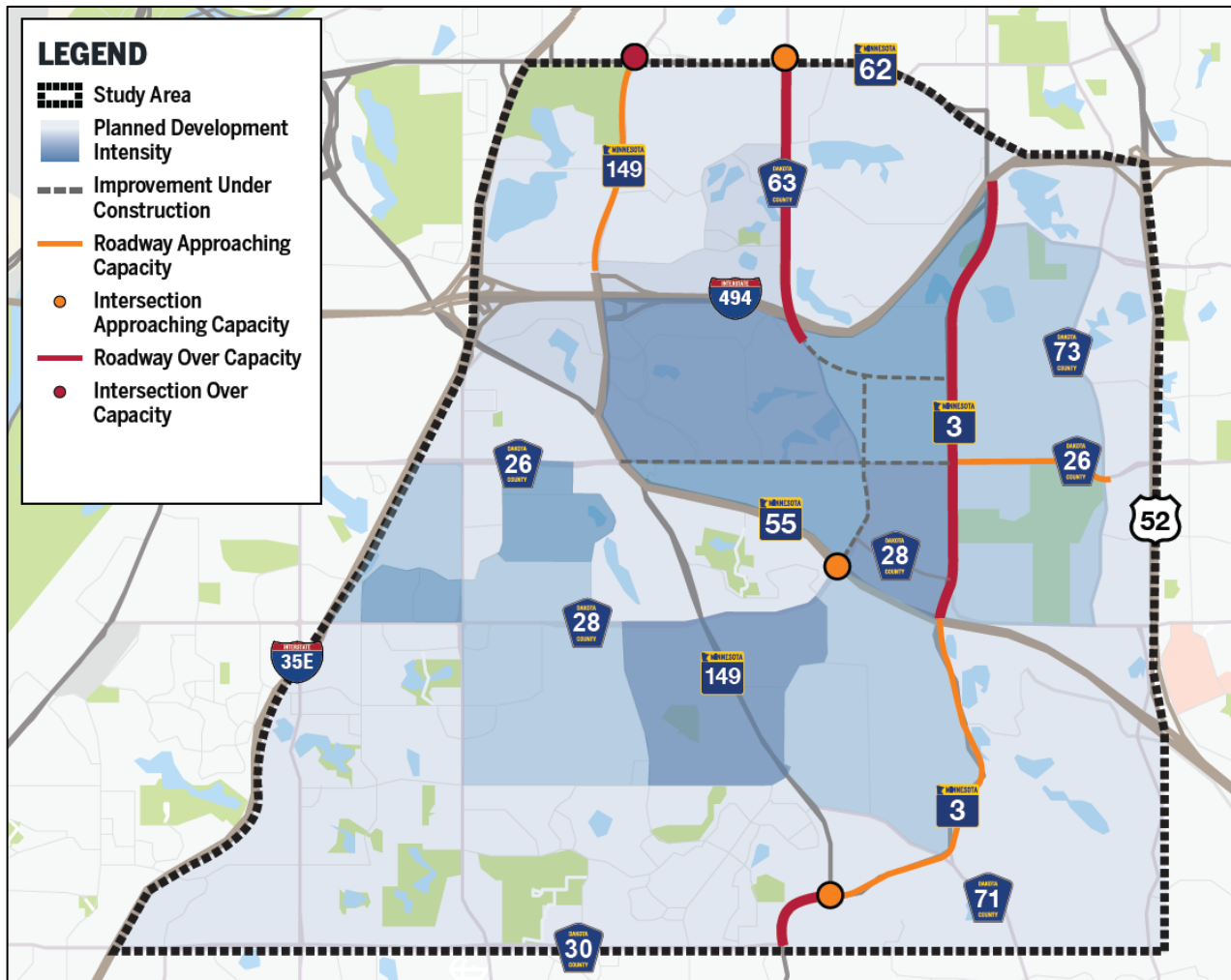


Figure 3. 2040 Visioning Baseline Traffic Capacity Needs.

Safety

Crash data was obtained using MnDOT's Minnesota Crash Mapping Analysis Tool (MnCMAT) for the five-year period from 2015 through 2019. Crash rates were calculated for roadway segments and for intersections, with intersection crashes based on a 250-foot radius. The crash rates were compared to expected crash rates for similar roadways and intersections, and the critical crash rate was used to determine where the existing crash rate on a roadway or intersection significantly exceeded the expected crash rate. The evaluation of critical crash rates in the study area are summarized in **Figure 4** and in the following key findings:

- None of the roadway segments in the study area had a crash rate approaching or exceeding the critical crash rate.
- Six intersections had a crash rate approaching the critical rate. An intersection with a crash rate that is approaching the critical crash rate would be monitored to determine if there is a safety concern.
- Two intersections had a crash rate exceeding the critical rate.
 - The CR 26 (Lone Oak Road/70th Street W)/CR 63 (Argenta Trail) intersection is currently under construction as a roundabout, and this improvement is expected to address the safety need at the intersection.

- The TH 55 (Courthouse Boulevard)/CR 26 (Lone Oak Road) intersection has a high number of crashes because it is a congested, signalized intersection.

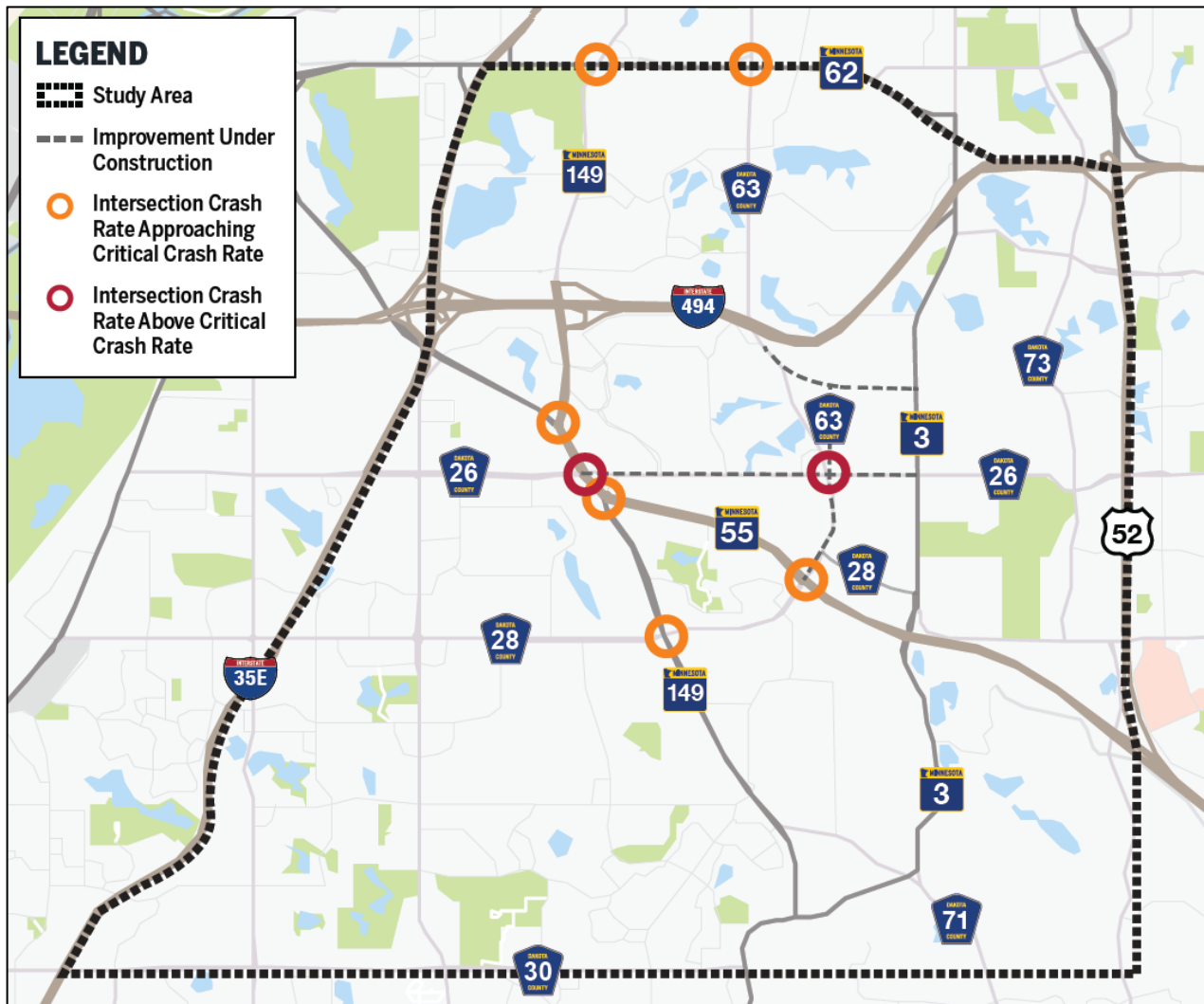


Figure 4. Study Area Crash History (2015-2019)

Source: MnCMAT

Roadway Connectivity

Collector Streets Needs

Collector streets connect between neighborhood streets and the state or county highway network, such as TH 3 (Robert Trail) and CR 26 (Lone Oak Road/70th Street W). In suburban areas, collector streets are typically needed every ½ to 1 mile for the following purposes:

- **Access management** – City collector streets provide the link between neighborhood streets and the highway system. Full access intersections to the highway would be a minimum distance of 1/4 mile apart and partial access intersections would be a minimum distance of 1/8 mile apart. Connecting multiple neighborhood streets directly to the county and state highway network at full access locations would not be feasible based on the safety and mobility of the highway and the density of residential developments planned in the RRSVS area. Without collector streets, the traffic within developed areas would be served only by local streets with driveways for each parcel; these types of street are not compatible with the traffic volumes and speeds that would be connecting to the highway network.
- **Neighborhood circulation** – Collector streets provide an organized system of circulation from neighborhood streets to collector streets, which then connect to the highway network. Neighborhood streets would only be allowed to access the highway network every 1/8 to 1/4 mile, as noted above, and some of the accesses would have partial access, meaning that left turns would not be allowed from the neighborhood street onto the highway. This would result in challenging traffic circulation through the neighborhoods.

Collector streets are city streets and are intended to carry primarily local trips; collector streets are not highways and are not intended to carry regional traffic. In the RRSVS study area, three areas were identified that would need a collector street to support development and connect the neighborhood/commercial area to the highway network, as shown in **Figure 5**.

- **65th Street Extension** – East of TH 3 (Robert Trail), there are currently no east-west collector streets between Upper 55th Street and CR 26 (70th Street W), a distance of 1.5 miles. Without an extension of 65th Street between TH 3 (Robert Trail) and CR 73 (Babcock Trail), the area would have only residential streets to serve about 750 total acres. This area is designated for Low Density Residential in the Inver Grove Heights 2040 Land Use Plan (one to four units per acre).
- **Area near Alverno Avenue and Argenta Trail** – In the area south of TH 55 (Courthouse Boulevard), there are currently no north-south collector streets between TH 149 (Dodd Road) and TH 3 (Robert Trail), a distance of 1.25 miles. Within the 2040 Metropolitan Urban Service Area (MUSA), which is the area intended to be serviced by city sewer and water, Eagan and Inver Grove Heights 2040 Land Use Plans identify Low Density Residential (one to four units per acre), Low-Medium Density Residential (four to eight units per acre), and Medium Density Residential (eight to 12 units per acre). The area covers a total of about 1,070 acres, with the MUSA area being more than half the total area.
- **Vikings Parkway Extension** – West of CR 63 (Argenta Trail), the need for an east-west collector street was identified between I-494 and CR 26 (Lone Oak Road). The extension of Vikings Parkway to the east would serve the remainder of the Vikings Lakes Development east of Ames Crossing Road, which is identified for Major Office in the Eagan 2040 Land Use Plan.

In addition to the future development areas identified with collector street needs, the realignment of CR 28 (80th Street W) east of TH 3 (Robert Trail) was also identified as a roadway connectivity need. CR 28 (80th Street W) currently has a partial-access intersection on TH 3 (Robert Trail) that is 1/8 mile north of the TH 55 ramp

intersection. Connecting CR 28 (80th Street W) to Amana Trail, another 1/8 mile north, would allow for a full access intersection and provide improved connectivity of the county road.

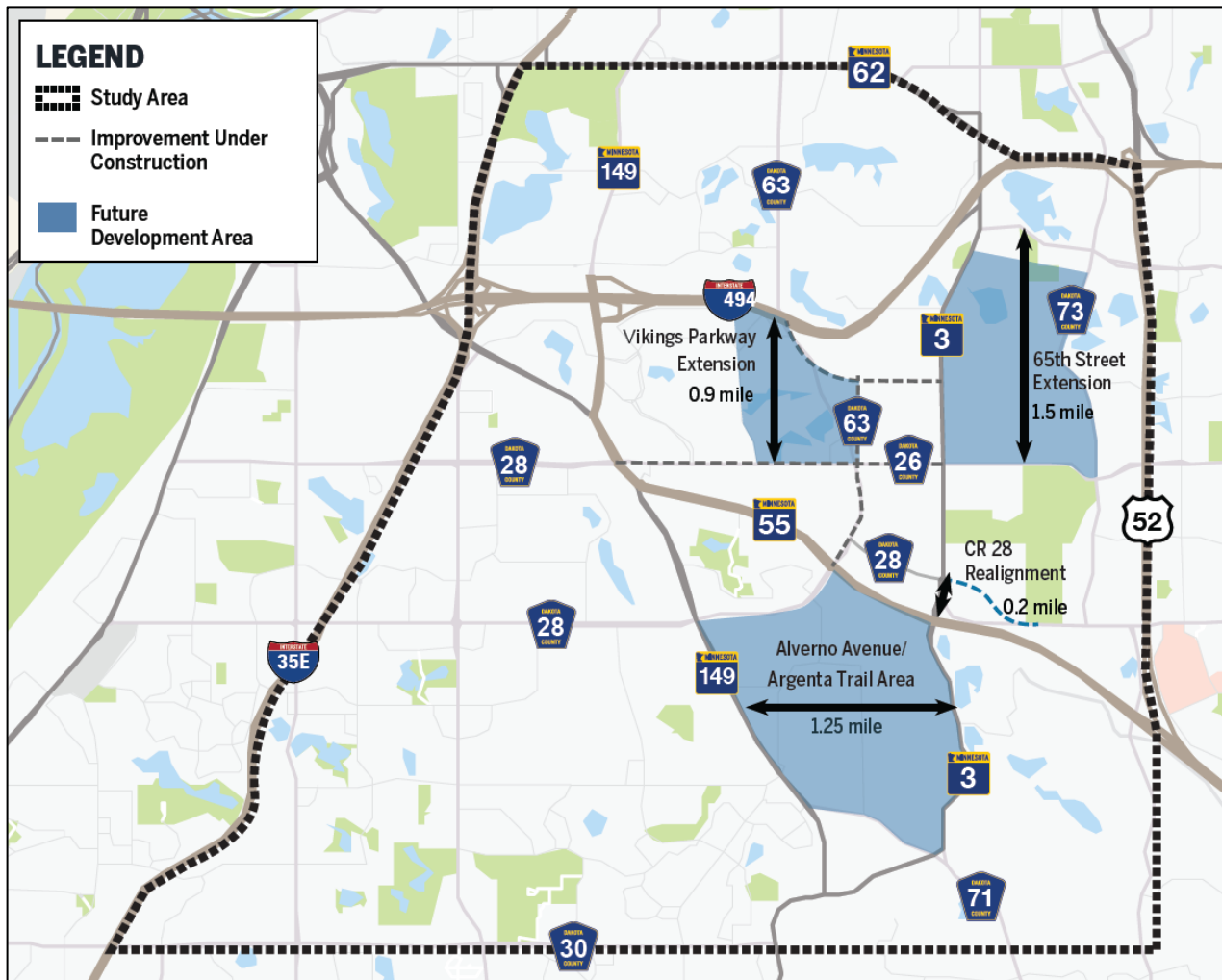


Figure 5. Roadway Connectivity and Collector Street Needs

Principal Arterials

Principal arterials are highways that provide time-efficient and safe travel over long distances for large volumes of traffic, with an emphasis on mobility over access. Principal Arterial highways help connect the region with the other areas in the state, carry the major portion of trips to/from activity centers, and serve the majority of through movements.

The Dakota County Principal Arterial Study, completed in 2018, focused on planning for principal arterials in Dakota County which are not freeways and are not intended to become freeways in the future. The recommendations of the Principal Arterial Study identified the following as future principal arterial highways in the RRSVS study area:

- TH 3 (Robert Trail) south of TH 149 (Jefferson Trail)
- TH 149 (Jefferson Trail/Dodd Road) south of TH 55 (Courthouse Boulevard)

- CR 28 (Yankee Doodle Road) between TH 149 (Dodd Road) and Amana Trail
- CR 63 (Argenta Trail) between CR 28 (Amana Trail) and I-494

Due to the close spacing between TH 149 (Jefferson Trail/Dodd Road), CR 63 (Argenta Trail), and TH 3 (Robert Trail) and their roles in serving future traffic, TH 149 (Dodd Road) north of TH 55 (Courthouse Boulevard) and TH 3 (Robert Trail) north of TH 149 (Jefferson Trail) were not recommended as future Principal Arterial highways. The existing Principal Arterial highways and the recommended future Principal Arterial highways from the Dakota County study are shown in **Figure 6**.

The intersection of TH 55 (Courthouse Boulevard) and CR 28 (Yankee Doodle Road/Argenta Trail) currently has a traffic signal and the intersection was identified in the Traffic Capacity analysis as approaching its capacity by 2040. To support the function of both roadways as Principal Arterial highways, the need for a future grade separation or high-capacity intersection was identified.

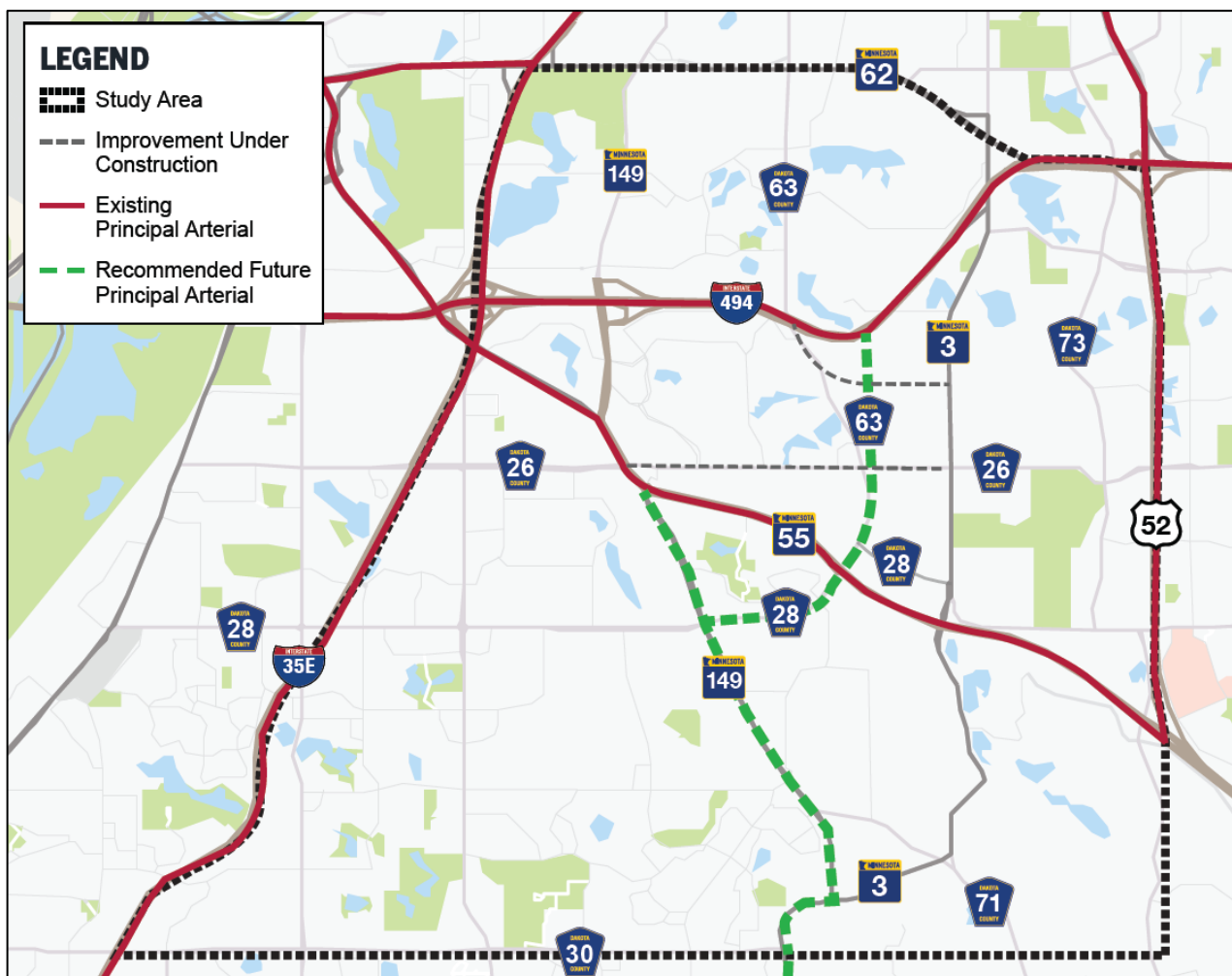


Figure 6. Principal Arterial Needs

TRANSPORTATION IMPACTS

In addition to the transportation needs, the potential impacts of changes to the transportation system were also identified and documented. The impacts were used to inform the development and evaluation of potential improvements.

Roadway Expansion

When considering traffic capacity needs in the RRSVS study area, some of the existing roadways in the study area were identified as having greater impacts or constraints for roadway expansion (adding through vehicle lanes). Corridors that had at least two of the following characteristics were identified as constrained corridor roadways:

- Roadway without existing highway right-of-way needed for additional through lanes
- Steep grades or bluffs along the roadway
- Fully developed areas with existing homes and driveway accesses on the roadway
- Large areas of lakes, wetlands, or other natural resources adjacent to the roadway

The constrained roadway corridors are shown in **Figure 7**. Constrained roadway corridors would have more significant impacts if the roadway was expanded (through vehicle lanes added) compared to other roadways in the RRSVS study area.

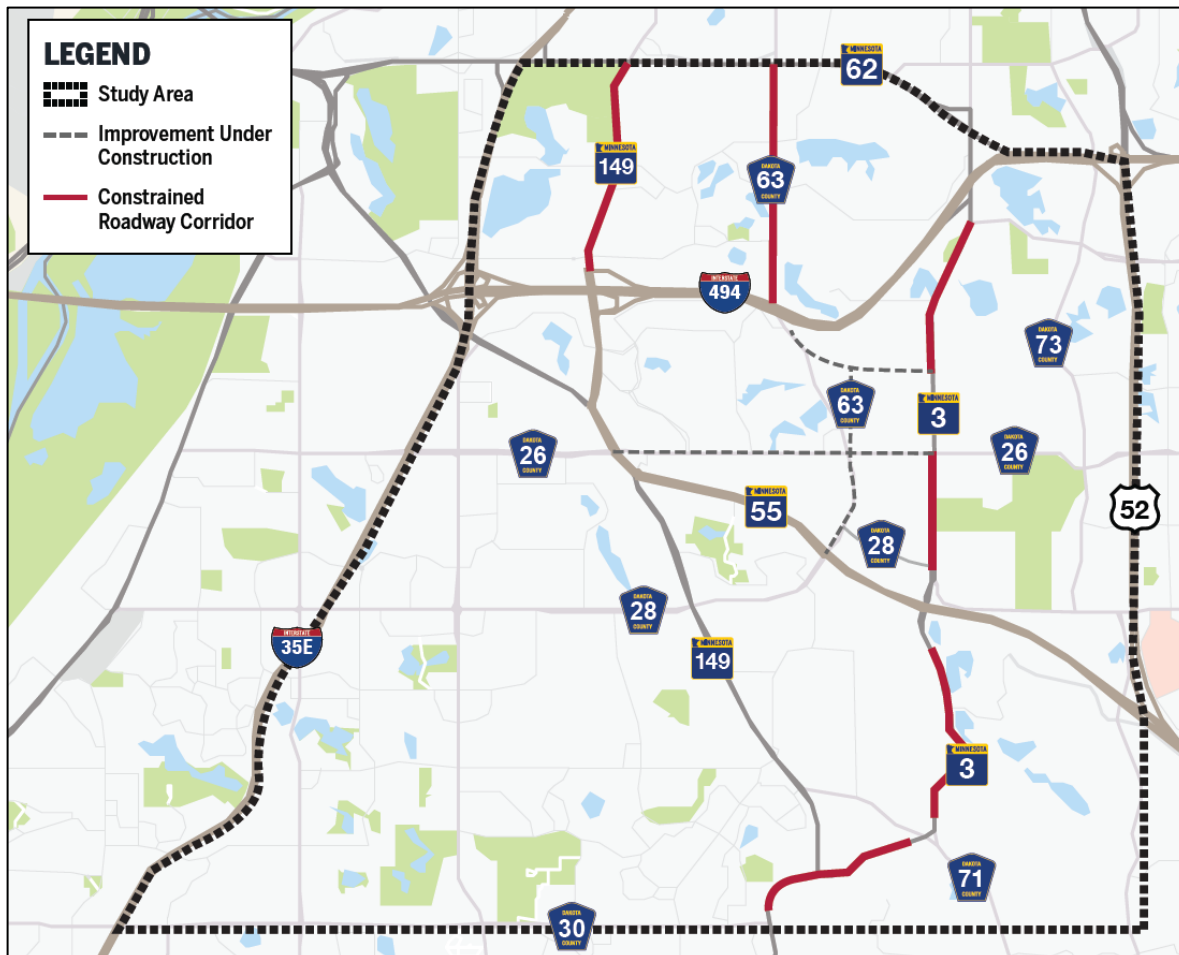


Figure 7. Corridors with Roadway Expansion Impacts

Environmental Resources

Potential environmental resources within the RRSVS study area were identified through a review of available data sources.

- Natural Resources
 - National Wetlands Inventory (NWI) depicts potential wetland areas and waterbodies based on stereoscopic analysis of high altitude and aerial photographs.
 - National Hydrography Dataset (NHD) depicts drainage networks and related features, including rivers, streams, canals, lakes, and ponds.
 - Minnesota Department of Natural Resources (DNR) Public Waters Inventory (PWI) includes all waterbasins and watercourses that meet the criteria set forth in Minnesota Statutes, Section 103G.005.
 - DNR Regionally Significant Ecological Areas (RSEA) dataset includes regionally significant terrestrial and wetland ecological areas in the seven-county metropolitan area.
 - DNR Sites of Biodiversity Significance depicts areas with varying levels of native biodiversity that may contain high quality native plant communities, rare plants, rare animals, and/or animal aggregations. There are no Sites of Biodiversity in the study area.
 - Federal Emergency Management Agency's Flood Insurance Rate Map which identifies floodplains in the study area.
- Parks and Trails – Parks and trails were identified through the Dakota County Interactive GIS mapping which includes county and city facilities.
- Federally-Listed and State-Listed Species and Habitats – The DNR Natural Heritage Inventory System (NHIS) database and United States Fish and Wildlife Service (USFWS) database were reviewed for known occurrences of endangered, threatened, and special concern species. Species and habitats are not mapped to specific locations but their presence within Dakota County was documented.
- Cultural Resources - Coordination with the State Historic Preservation Office (SHPO) identified three properties listed in the National or State Registers of Historic Places, and no known or suspected archaeological properties. The locations of cultural resources were identified at the Township Range Section (TRS) level. The identified cultural resources did not have a significant effect on the evaluation of alternatives; to simplify the mapping, historic properties are not shown on the maps in Figures 8 and 9.
- Contaminated Sites – The Minnesota Pollution Control Agency (MPCA) "What's In My Neighborhood" database was reviewed to identify properties in the MPCA inventory. The inventory includes contaminated sites that have been previously remediated, potentially contaminated sites that are currently being investigated or remediated, and sites with environmental permits and registrations from the MPCA.
- Environmental Justice – Potential environmental justice areas, including areas of minority and low-income population groups, were reviewed based on the 2016-2020 American Community Survey (ACS). Environmental justice areas were mapped at the census block group level.
- Social and Community - Social and community resources reviewed include the locations of schools, churches, hospitals, libraries, government buildings, and post offices.

The data gathered through the environmental review is documented in **Figure 8** (north RRSVS study area) and **Figure 9** (south RRSVS study area).

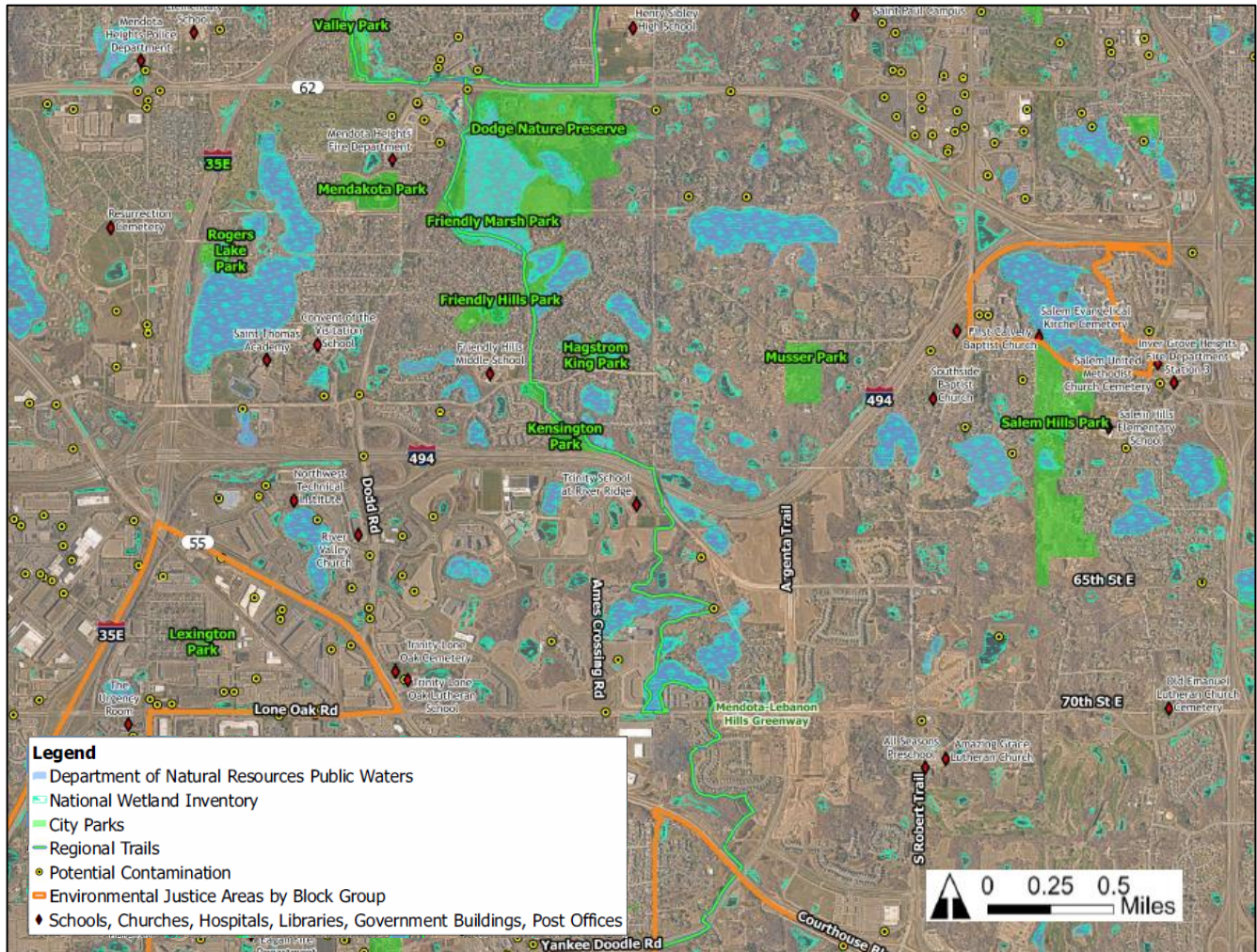


Figure 8. Environmental Resources – North RRSVS Study Area

Listed species are not mapped to specific locations, but species in Dakota County include: Northern Long-Eared Bat, Higgins Eye Mussel, Sheepsnose Mussel, Snuffbox Mussel, Monarch Butterfly, Rusty Patched Bumble Bee, Minnesota Dwarf Trout Lily, and Prairie Bush-Clover.

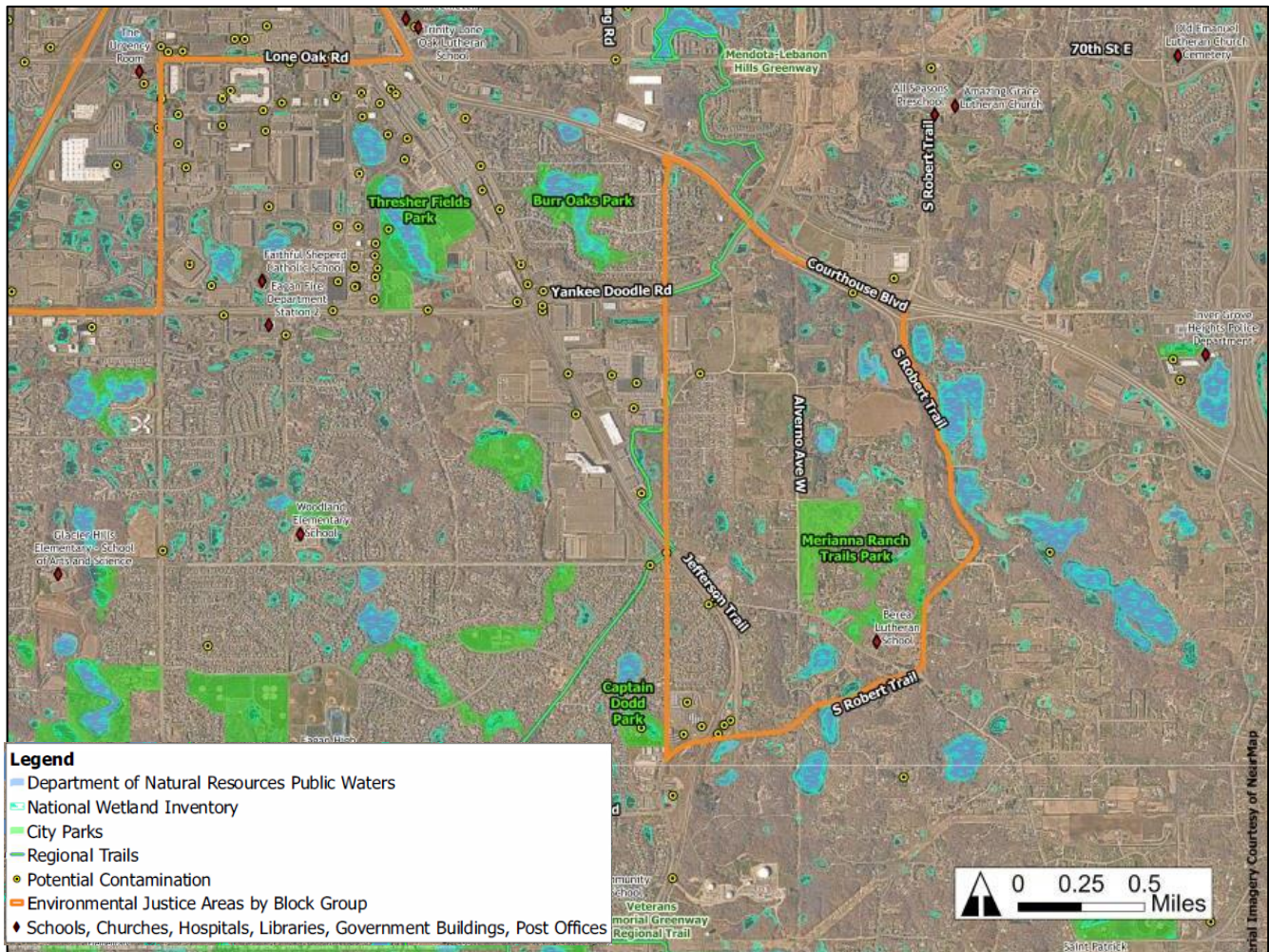


Figure 9. Environmental Resources – South RRSVS Study Area

Listed species are not mapped to specific locations, but species in Dakota County include: Northern Long-Eared Bat, Higgins Eye Mussel, Sheepnose Mussel, Snuffbox Mussel, Monarch Butterfly, Rusty Patched Bumble Bee, Minnesota Dwarf Trout Lily, and Prairie Bush-Clover.

Development and Evaluation of Transportation Improvements

The process to develop and evaluate transportation improvements in the RRSVS study area started with the identification of improvements that could potentially address one of the documented existing or future transportation needs. To address the capacity, safety, and connectivity needs identified in the study, multiple types of improvements were considered:

- Roadway expansions (adding through vehicle lanes)
- New roadways
- Interchange expansions
- New interchanges
- Intersection improvements
- Spot improvements such as turn lanes and intersection control
- Corridor improvements such as access management

Improvements to existing roadways focused on key corridors in the study area:

- TH 3 (Robert Trail)
- TH 149 (Dodd Road/Jefferson Trail)
- TH 62
- CR 26 (Lone Oak Road/70th Street W)
- CR 28 (Yankee Doodle Road/80th Street W/Amana Trail)
- CR 63 (Argenta Trail/Delaware Ave)

Potential improvements or changes were not considered on freeways such as I-35E or on neighborhood streets.

A list of 21 potential transportation improvements were identified for evaluation, which included the recommended improvements from the 2010 RRSVS as well as some new potential improvements that were not identified in the 2010 RRSVS. The evaluation of each of the potential improvements considered how well it met one of the identified transportation needs and its potential environmental and property impacts. The traffic forecasting model was used to test how various combinations of improvements addressed the RRSVS Visioning Baseline capacity need, the amount of roadway expansion needed, and the traffic volume shifts resulting from different combinations of improvements. The 21 potential improvements and the evaluation of each improvement are summarized in **Table 3**.



Table 3. Evaluation of Potential RRSVS Transportation Improvements

Potential Transportation Improvement Alternative		2010 RRSVS Study Recommendation?	Transportation Needs			Environmental and Property Impacts
			Capacity	Safety	Connectivity	
1	CR 26 (70 th Street W), TH 3 (Robert Trail) to CR 73 (Babcock Trail): Expansion to 4 lanes	Yes	►			►
2	65 th Street Extension, TH 3 (Robert Trail) to CR 73 (Babcock Trail): City collector street (2 lanes)	Yes			+	►
3	CR 28 (80 th Street W) at TH 3: Roadway realignment (2 lanes)	Yes			+	►
4	TH 3 (Robert Trail), CR 30 (Diffley Road) to CR 71 (Rich Valley Boulevard): Expansion to 4 lanes	Yes	+			►
5	TH 149 (Jefferson Trail), CR 71 (Rich Valley Boulevard) to TH 3 (Robert Trail): Expansion to 4 lanes	Yes	+			►
6	CR 28 (Yankee Doodle Road) to TH 149 (Jefferson Trail) or CR 71 (Rich Valley Boulevard): City collector street (2 lanes)	Yes			+	►
7	TH 3 (Robert Trail), CR 71 (Rich Valley Boulevard) to TH 55 (Courthouse Boulevard): Expansion to 4 lanes	Yes	+(without Argenta/I-494 interchange)			×
8	TH 3 (Robert Trail), TH 55 (Courthouse Boulevard) to CR 26 (70 th Street W): Expansion to 4 lanes	Yes (long term)	+(without Argenta/I-494 interchange)			►
9	TH 3 (Robert Trail), CR 26 (70 th Street W) to I-494: Expansion to 4 lanes	Yes (long term)	+(without Argenta/I-494 interchange)			►
10	TH 3 (Robert Trail)/I-494/TH 62 Interchange Improvements	No				
11	TH 55 (Courthouse Boulevard) and CR 28 (Yankee Doodle Road/Argenta Trail) High-Capacity Intersection or Interchange	Yes	►	+	►	►
12	CR 63 (Argenta Trail), TH 55 (Courthouse Boulevard) to I-494: Expansion to 4 lanes	Yes (6 lanes)	+(with Argenta/I-494 interchange)			►

Note: The improvement numbering system was used for referencing of individual items and does not indicate evaluation ranking or priority.

LEGEND:	Transportation Needs	Environmental and Property Impacts
	⊕ Fully Meets Need	⊕ Positive Effects
	► Partially Meets Need	► Neutral Effects or Moderate Negative Effects
	Does Not Meet Need	× Significant Negative Effects



Table 3. Evaluation of Potential RRSVS Transportation Improvements (continued)

Potential Transportation Improvement Alternative		2010 RRSVS Study Recommendation?	Transportation Needs			Environmental and Property Impacts
			Capacity	Safety	Connectivity	
13	CR 63 (Argenta Trail)/I-494 Interchange	Yes	+			+
14	Vikings Parkway extension: City collector street (2 lanes)	Yes			+	►
15	TH 149 (Dodd Road), TH 55 (Courthouse Boulevard) to I-494: Expansion to 6 lanes	Yes		+(at TH 55)		►
16	TH 149 (Dodd Road)/I-494 Interchange Improvements	No				
17	CR 26 (Lone Oak Road), I-35E to CR 43 (Lexington Avenue): Expansion to 6 lanes	Yes				►
18	TH 62/TH 149 (Dodd Road) Intersection Improvements: Additional evaluation needed to identify specific improvements	No		+		
19	TH 62/CR 63 (Delaware Avenue) Intersection Improvements: Additional evaluation needed to identify specific improvements	No		+		
20	CR 63 (Delaware Avenue), I-494 to TH 62: Spot improvements	No	+			►
21	CR 28 (Amana Trail), CR 63 (Argenta Trail) to TH 3 (Robert Trail): Expansion to 4 lanes	Yes				

Note: The improvement numbering system was used for referencing of individual items and does not indicate evaluation ranking or priority.

LEGEND:	Transportation Needs	Environmental and Property Impacts
	+ Fully Meets Need	+ Positive Effects
	► Partially Meets Need	► Neutral Effects or Moderate Negative Effects
	Does Not Meet Need	✗ Significant Negative Effects

Based on the evaluation shown in Table 3, there were five potential transportation improvements that did not meet a transportation need. These alternative improvements were therefore not considered further and are not included in the recommendations for this study.

10. TH 3 (Robert Trail)/I-494/TH 62 Interchange Improvements – The 2040 and Beyond 2040 traffic forecasts did not show traffic capacity needs at the interchange, and additional interchange capacity at TH 3 (Robert Trail) would not be needed with a new interchange at CR 63 (Argenta Trail)/I-494. This finding is consistent with the 2010 RRSVS, which included more intense development in the study area.

15. TH 149 (Dodd Road), TH 55 (Courthouse Boulevard) to I-494: Expansion to 6 lanes – The 2010 RRSVS included a recommendation to expand the roadway to six vehicle lanes. The RRSVS Update forecasts for 2040 and Beyond 2040 showed traffic volumes on TH 149 (Dodd Road) less than 35,000 vehicles per day, which indicates a 6-lane section would not be needed. In addition, a new interchange at CR 63 (Argenta Trail)/I-494 would reduce the future traffic demands on TH 149 (Dodd Road) in this segment.

16. TH 149 (Dodd Road)/I-494 Interchange Improvements – The 2040 and Beyond 2040 traffic forecasts did not show traffic capacity needs at the interchange, and additional interchange capacity at TH 149 (Dodd Road) would not be needed with a new interchange at CR 63 (Argenta Trail)/I-494. This finding is consistent with the 2010 RRSVS, which included more intense development in the study area.

17. CR 26 (Lone Oak Road), I-35E to CR 43 (Lexington Avenue): Expansion to 6 lanes – The 2010 RRSVS included a recommendation to expand the roadway to six vehicle lanes. The RRSVS Update forecasts for 2040 and Beyond 2040 showed traffic volumes on CR 26 (Lone Oak Road) were less than 35,000 vehicles per day, which indicates a 6-lane section would not be needed. In addition, the forecasts on this segment of CR 26 (Lone Oak Road) had little variation in traffic volume when testing combinations of potential improvements in the RRSVS study area, which indicates that this roadway segment is not significantly affected by the transportation improvements in the RRSVS study area.

21. CR 28 (Amana Trail), CR 63 (Argenta Trail) to TH 3 (Robert Trail): Expansion to 4 lanes – The 2010 RRSVS included a recommendation to expand the roadway to four vehicle lanes. The RRSVS Update forecasts for 2040 and Beyond 2040 showed traffic volumes on CR 28 (Amana Trail) less than 8,000 vehicles per day, which indicates a 4-lane section would not be needed. In addition, the forecasts on this segment of CR 28 (Amana Trail) had little variation in traffic volume when testing combinations of potential improvements in the RRSVS study area, which indicates that this roadway segment is not significantly affected by the transportation improvements in the RRSVS study area.

The technical analysis and evaluation also showed that several potential improvements should be modified or reduced in scope, for example corridor spot improvements instead of corridor expansion (adding through vehicle lanes). The details of these scope modifications and the technical analysis supporting the modifications to improvements scope are discussed in the Recommendations section of this report.

Public Input

Opportunities for the public to provide input and updates to elected officials in each city occurred at two key points in the RRSVS Update: during the project initiation/data collection phase and during the recommendations phase. The feedback was used to inform and validate the transportation needs and to inform the final recommendations of the study.

OPEN HOUSE #1

The intent of Open House #1 was to inform the public about the study and gather input about transportation challenges and opportunities in the study area. The first open house was held in November 2021 with both in-person and virtual options for participation. The open house materials were available on the project website and comments were requested during a three-week period in November 2021. The in-person meeting was held on November 9, 2021 at Friendly Hills Middle School in Mendota Heights. About 70 people attended the in-person open house and there were 512 visits to the project website during the virtual open house.

The major themes of public feedback during Open House #1 included:

- Concern about Alverno Avenue becoming a major north-south street south of TH 55 (Courthouse Boulevard), the desire to retain rural character of the area, and concern with impacts to private property.
- Concern about traffic and pedestrian safety at specific intersections on TH 149 (Dodd Road) and on TH 62.
- Questions about whether additional lanes are needed on TH 3 (Robert Trail) and concerns with impacts to private property.
- Questions about timeline for roadway improvements.
- Desire for transparency of the decision-making processes for future land use, long-term transportation plan, and roadway projects.

OPEN HOUSE #2

The purpose of Open House #2 was to share the transportation needs analysis and draft recommendations for the study area. The open house was held in June 2022 with both in-person and virtual options for participation. The open house materials were available on the project website and comments were requested during June 2022. The in-person meeting was held on June 1, 2022 at Veterans Memorial Community Center in Inver Grove Heights. About 60 people attended the in-person open house and there were 157 visits to the project website during the virtual open house.

The major themes of public feedback during Open House #2 included:

- General support for not expanding TH 3 (Robert Trail) to a four-lane roadway north of CR 71 (Rich Valley Boulevard).
- Concern for expansion (adding through vehicle lanes) on TH 3 (Robert Trail) south of CR 71 (Rich Valley Boulevard).
- Concern for developing city collector streets, especially 65th Street east of TH 3 (Robert Trail) and a collector street south of TH 55 (Courthouse Boulevard) near Alverno Avenue.
- Support for a new interchange at CR 63 (Argenta Trail)/I-494.

As part of the updates to city councils in summer 2022, Sunfish Lake and Mendota Heights provided the following feedback on the study:

- Sunfish Lake expressed concern about safety and delays on Salem Church Road at CR 63 (Delaware Avenue) and TH 3 (Robert Trail), especially as traffic volumes increase.
- Mendota Heights requested that the RRSVS Update address pedestrian and bicycle needs in the study area.

Recommendations

The recommendations of the RRSVS Update are intended to guide the planning and implementation of transportation improvements within the study area over the next 20 years. Significant growth is anticipated in the next 20 years, and a unified transportation vision is needed to support development and guide future efforts of the cities, county, and MnDOT to plan, fund, and implement transportation improvements.

ROADWAY IMPROVEMENTS

The 16 roadway recommendations of the RRSVS Update reflect the changes that have occurred in traffic conditions, land use plans, and the transportation network since the 2010 RRSVS was completed. The recommended improvements will provide for safe and efficient travel in and through the study area and support development in the RRSVS study area and surrounding communities.

Each of the recommended roadway improvements is shown in **Figure 10**; the need for the improvement, dependencies among improvements, and modifications to the improvement scope compared to the 2010 RRSVS recommendations are discussed below. The improvement numbering system was used for referencing on the map and does not indicate importance or priority.

1. CR 26 (70th Street W), TH 3 (Robert Trail) to CR 73 (Babcock Trail): Expansion to 3 lanes – The 2040 and Beyond 2040 traffic forecasts showed future traffic volumes of about 10,000 vehicles per day, which indicates that improvements would be needed to the existing two-lane roadway. Based on the technical analysis, the scope of this improvement was modified from a four-lane expansion (recommended in the 2010 RRSVS) to a three-lane expansion (recommended in the RRSVS Update). A three-lane roadway would have one through lane in each direction with left-turn lanes. Access management will also be needed on CR 26 (70th Street W), consistent with the 2040 Dakota County Transportation Plan.

2. 65th Street Extension, TH 3 (Robert Trail) to CR 73 (Babcock Trail): City collector street (2 lanes) – The RRSVS Update confirmed the need for the 65th Street extension to support residential development in the area bounded by TH 3 (Robert Trail), Upper 55th Street, CR 73 (Babcock Trail), and CR 26 (70th Street W). The 2040 and Beyond 2040 forecasts show that the 65th Street extension would carry 800 to 2,000 vehicles per day, with the higher volume expected if the CR 63 (Argenta Trail)/I-494 interchange was constructed.

If 65th Street were not extended between TH 3 (Robert Trail) and Babcock Trail (CR 73), the analysis indicated that the recommended number of lanes on TH 3 (Robert Trail) and CR 26 (70th Street W) would not change. However, neighborhood street connections to the county and state highways would only be permitted at most every 1/4 mile (full access) or 1/8 mile (partial access). This means that all the traffic from the future neighborhoods (800 to 2,000 vehicles per day) would be accessing the highway system via neighborhood streets. Residential streets, with very frequent driveway accesses, are not designed to accommodate these traffic volumes and would be expected to negatively impact safety and livability on the neighborhood streets.

3. CR 28 (80th Street W) at TH 3: Roadway realignment (2 lanes) – This recommendation meets a connectivity need because CR 28 (80th Street W) currently intersects TH 3 (Robert Trail) only 1/8 mile north of the TH 55 ramp intersection. Based on access management guidelines, the existing CR 28 (80th Street W)/TH 3 (Robert Trail) intersection is a partial access. Realignment of CR 28 (80th Street W) to intersect TH 3 (Robert Trail) at Amana Trail would allow for a full access intersection and provide improved connectivity of the county road.

4. TH 3 (Robert Trail), CR 30 (Diffley Road) to CR 71 (Rich Valley Boulevard): Expansion to 4

lanes – The 2040 and Beyond 2040 forecasts showed future traffic volumes of 16,500 to 19,000 vehicles per day south of TH 149 (Jefferson Trail), which indicates that a four-lane roadway would be needed to provide adequate capacity. This recommendation is also supported by the identification of TH 3 (Robert Trail) and TH 149 (Jefferson Trail) as future principal arterial highways. More detailed traffic analysis will be needed to determine the intersection design and control at the TH 3 (Robert Trail)/TH 149 (Jefferson Trail) intersection and the number of lanes on TH 3 (Robert Trail) between TH 149 (Jefferson Trail) and CR 71 (Rich Valley Boulevard). The expansion of TH 3 (Robert Trail) would require modifications or reconstruction of the existing railroad bridge.

5. TH 149 (Jefferson Trail), CR 71 (Rich Valley Boulevard) to TH 3 (Robert Trail): Expansion to 4

lanes – The 2040 and Beyond 2040 forecasts showed future traffic volumes of 13,000 to 14,500 vehicle per day south of Wescott Road, which indicates that additional lanes would be needed to provide adequate capacity. This recommendation is also supported by the need for continuity with the segment of TH 149 (Dodd Road) to the north and identification of TH 149 (Jefferson Trail/Dodd Road) as a future principal arterial highway. More detailed traffic analysis will be needed to determine the intersection design and control at TH 3 (Robert Trail) and TH 149 (Jefferson Trail).

6. CR 28 (Yankee Doodle Road) to TH 149 (Jefferson Trail) or CR 71 (Rich Valley Boulevard): City collector street (2 lanes) – The RRSVS Update confirmed the need for a city collector street to support the low- to medium-density residential development in the 2040 MUSA area south of TH 55 (Courthouse Boulevard) between TH 149 (Jefferson Trail/Dodd Road) and TH 3 (Robert Trail). The city collector street would connect neighborhoods to the highway network and is not intended to serve through traffic. The collector street is recommended to connect to CR 71 (Rich Valley Boulevard) because the RRSVS Update traffic forecasting showed that a connection to TH 149 (Dodd Road) would be more likely to result in cut-through traffic.

If a city collector street were not built as the low- to medium-density residential land uses are developed, all the traffic from the neighborhood would be accessing the highway system via neighborhood streets. Residential streets, with very frequent driveway accesses, are not designed to accommodate these traffic volumes and would be expected to negatively impact safety and livability on the neighborhood streets.

7. TH 3 (Robert Trail), CR 71 (Rich Valley Boulevard) to TH 55 (Courthouse Boulevard): Spot

Improvements – The 2040 and Beyond 2040 forecasts showed that future traffic volumes would remain less than 10,000 vehicles per day if TH 3 (Robert Trail) is not expanded and if an interchange is constructed at CR 63 (Argenta Trail)/I-494. Based on the traffic forecasts, corridor constraints in this segment of the TH 3 (Robert Trail) corridor, and both public and agency input, the scope of this improvement was modified from a roadway expansion (recommended in the 2010 RRSVS) to spot improvements which could include shoulders, turn lanes, access management, and intersection improvements. More detailed traffic analysis will be needed to determine the location and type of spot improvements.

8. TH 3 (Robert Trail), TH 55 (Courthouse Boulevard) to CR 26 (70th Street W): Spot

Improvements – The 2040 and Beyond 2040 forecasts showed that future traffic volumes would remain less than 10,000 vehicles per day if TH 3 (Robert Trail) is not expanded and if an interchange is constructed at CR 63 (Argenta Trail)/I-494. Based on the traffic forecasts, corridor constraints in this segment of the TH 3 (Robert Trail) corridor, and both public and agency input, the scope of this improvement was modified from a roadway expansion (recommended in the 2010 RRSVS) to spot improvements which could include shoulders, turn lanes, access management, and intersection

improvements. More detailed traffic analysis will be needed to determine the location and type of spot improvements.

9. TH 3 (Robert Trail), CR 26 (70th Street W) to I-494: Spot Improvements – The 2040 and Beyond 2040 forecasts showed that future traffic volumes would remain less than 10,000 vehicles per day if TH 3 (Robert Trail) is not expanded and if an interchange is constructed at CR 63 (Argenta Trail)/I-494. Based on the traffic forecasts, corridor constraints in this segment of the TH 3 (Robert Trail) corridor, and both public and agency input, the scope of this improvement was modified from a roadway expansion (recommended in the 2010 RRSVS) to spot improvements which could include shoulders, turn lanes, access management, and intersection improvements. More detailed traffic analysis will be needed to determine the location and type of spot improvements.

11. TH 55 (Courthouse Boulevard) and CR 28/63 (Yankee Doodle Road/Argenta Trail) High-Capacity Intersection or Interchange – This improvement meets a connectivity need because TH 55 (Courthouse Boulevard) is an existing principal arterial highway and CR 28 (Yankee Doodle Road/Argenta Trail) is identified as a future principal arterial highway. The existing traffic signal would be expected to have significant congestion by 2040. To support the function of both roadways as principal arterial highways, a future grade separation or high-capacity intersection is recommended.

12. CR 63 (Argenta Trail), TH 55 (Courthouse Boulevard) to I-494: Expansion to 4 lanes – The 2040 and Beyond 2040 traffic forecasts showed future traffic volumes of 18,000 to 33,000 vehicles per day with a new interchange at CR 63 (Argenta Trail)/I-494. Based on the technical analysis, the scope of this improvement was modified from a six-lane expansion (recommended in the 2010 RRSVS) to a four-lane expansion (recommended in the RRSVS Update). The roadway expansion would not be needed until the new interchange is constructed at I-494.

13. CR 63 (Argenta Trail)/I-494 Interchange – The 2040 and Beyond 2040 traffic forecasts showed that a new interchange at CR 63 (Argenta Trail)/I-494 would best provide regional highway access to and from the densest development in the RRSVS study area. This confirms the recommendation from the 2010 RRSVS. The 2010 RRSVS included significant analysis to site the interchange and roadway network around the interchange, therefore the recommendation in the RRSVS Update perpetuates the previously recommended location and design: the new interchange would provide access to and from Eagan, Inver Grove Heights, and both directions of I-494. There would not be direct access to the interchange from north of I-494. The design and footprint (interchange configuration) at CR 63 (Argenta Trail)/I-494 have not been determined. Further evaluation of the CR 63 (Argenta Trail)/I-494 interchange configuration would be needed to determine the interchange layout and whether the I-494/TH 3 West Ramps would need to be removed. The removal of the I-494/TH 3 West Ramps was not evaluated in this study.

Changes in interchange access require significant time for evaluation, funding, and approvals. Future evaluations could determine that a new interchange is not warranted or may determine that other modifications may be needed along with the interchange.

14. Vikings Parkway Extension: City collector street (2 lanes) – This improvement meets a roadway connectivity need west of CR 63 (Argenta Trail). An east-west collector street between I-494 and CR 26 (Lone Oak Road) would serve the future development area east of Ames Crossing Road.

18. TH 62/TH 149 (Dodd Road) Intersection Improvements: Additional evaluation needed to identify specific improvements – This improvement meets both capacity and safety needs. While a new interchange at CR 63 (Argenta Trail)/I-494 would reduce the future traffic demand on this segment of TH 149 (Dodd Road), improvements would still be needed to address capacity issues and potential

existing safety needs. More detailed traffic analysis will be needed to determine the location and type of improvements.

19. TH 62/CR 63 (Delaware Avenue) Intersection Improvements: Additional evaluation needed to identify specific improvements – This improvement meets both capacity and safety needs. While a new interchange at CR 63 (Argenta Trail)/I-494 would reduce the future traffic demand on this segment of CR 63 (Delaware Avenue), improvements would still be needed to address capacity issues and potential existing safety needs. More detailed traffic analysis will be needed to determine the location and type of improvements.

20. CR 63 (Delaware Avenue), I-494 to TH 62: Spot Improvements – The 2040 and Beyond 2040 forecasts showed that future traffic volumes would be approaching the capacity of a two-lane roadway. While a new interchange at CR 63 (Argenta Trail)/I-494 would reduce the future traffic demand on this segment of CR 63 (Delaware Avenue), improvements would still be needed to address capacity issues. Spot improvements, which could include shoulders, turn lanes, access management, and intersection improvements, are recommended to address the capacity need. More detailed traffic analysis will be needed to determine the location and type of spot improvements.

The RRSVS Update recommendations discussed in this section are focused on the system level and reflect the needs on the highway corridors and at major intersections and interchanges. These recommendations do not preclude or limit agencies from evaluating and implementing localized improvements, such as at minor intersections or on smaller roadway segments, where the agencies identify a specific need.

The roadway and intersection capacity for the study area, with the 16 recommended improvements, is shown in **Figure 11**. The analysis shows that the 2040 capacity needs would be addressed by the recommended improvements and no roadway segments or intersections would be over capacity. The segment of CR 63 (Argenta Trail) between 65th Street and I-494 would be approaching the capacity of a four-lane roadway section. This segment of roadway would be part of the CR 63 (Argenta Trail)/I-494 interchange, would primarily serve turning traffic to and from I-494, and would not have any through traffic; therefore, additional through lanes are not recommended. The interchange configuration, including the number of turn lanes, should be further evaluated in future phases of the interchange analysis and design.

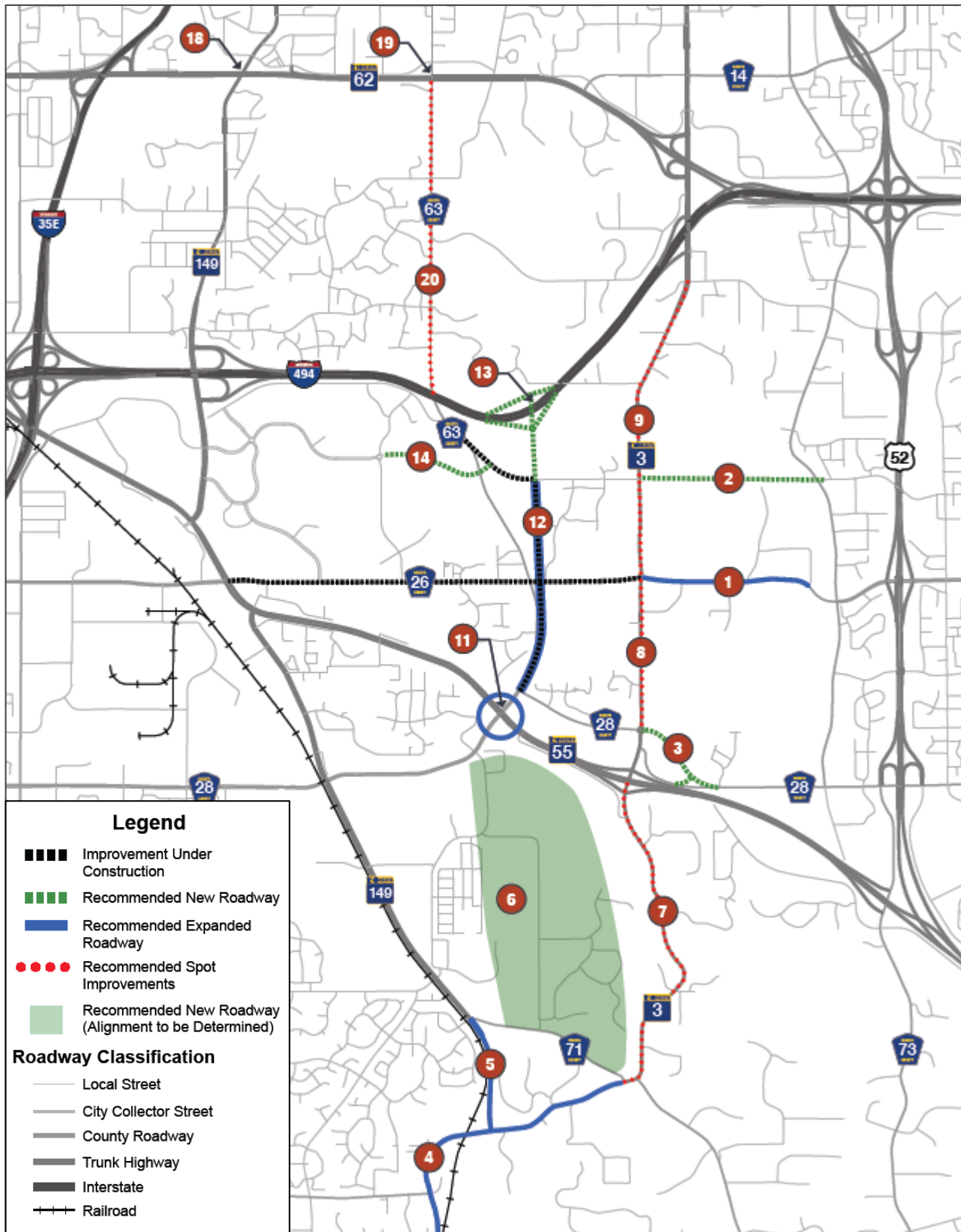


Figure 10. RRSVS Update Recommendations

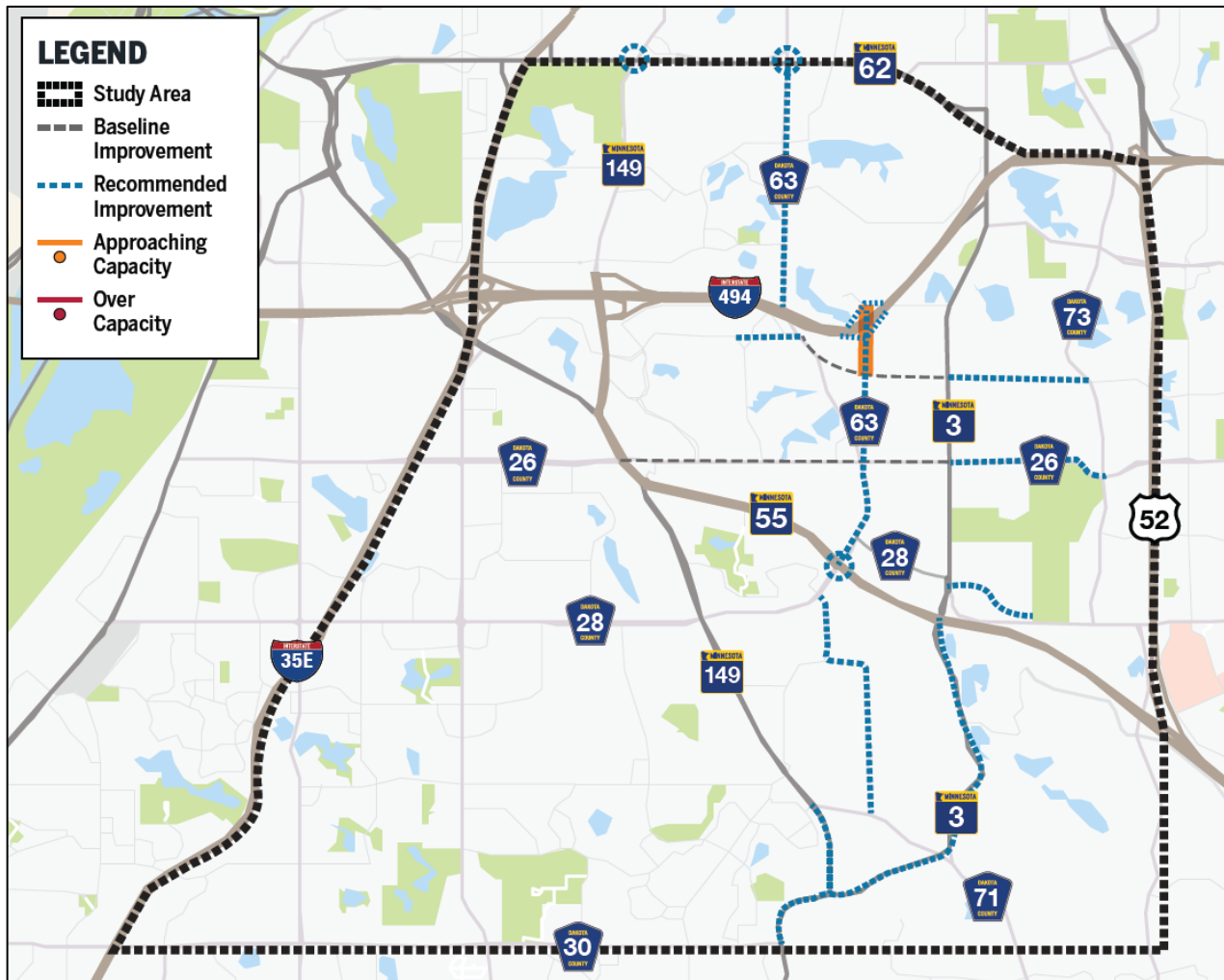


Figure 11. 2040 RRSVS Update Traffic Capacity Needs with Recommendations.

OTHER RECOMMENDATIONS

2010 RRSVS

In addition to the 16 roadway improvements recommended, there were also two areas where the RRSVS Update recommendation is not to implement an improvement that was identified in the 2010 RRSVS. The technical analysis in the RRSVS Update did not show a transportation need for either of these roadways in 2040 or Beyond 2040 traffic forecasts.

17. CR 26 (Lone Oak Road), I-35E to CR 43 (Lexington Avenue): The 2010 RRSVS included a recommendation to expand the roadway to six vehicle lanes. The RRSVS Update showed 2040 traffic forecasts less than 35,000 vehicles per day, which indicates a six-lane section would not be needed. Therefore, expansion to a six-lane roadway is not recommended.

21. CR 28 (Amana Trail), CR 63 (Argenta Trail) to TH 3 (Robert Trail): The RRSVS Update showed 2040 traffic forecasts less than 8,000 vehicles per day, which indicates the existing roadway section with one lane in each direction, turn lanes, and access management would meet the future capacity needs. Therefore, expansion to a four-lane roadway is not recommended.

Multimodal Transportation

Trails, sidewalks, and bikeways are important elements of a safe and efficient transportation system and provide transportation and recreation options for people of all ages and abilities. As noted in the 2010 RRSVS, many of the regional routes in the study area are not conducive for bicycle and pedestrian use due to narrow shoulders and limited sight distance due to curves and hills. Dakota County, the cities, and MnDOT should plan for appropriate pedestrian and bicycle facilities in parallel with the recommended roadway improvements from this study and consistent with the pedestrian and bicycle networks identified in the 2040 Comprehensive Plans.

Implementation

The implementation of specific recommendations in the RRSVS Update will be driven by the rate of development and growth in traffic volumes on the roadway network. The recommendations also include additional studies and more detailed preliminary design for intersections and roadway segments.

The improvements included in the RRSVS Update recommendations should be incorporated into appropriate capital improvement programs as the following occurs:

- Capacity and/or safety needs are identified on the existing transportation system
- Opportunities arise to coordinate with development or other outside funding sources
- Specific to the CR 63 (Argenta Trail)/I-494 interchange, the necessary supporting roadway system connections need to be in place prior to or built with the new interchange.
- An Interchange Warrant Analysis was completed and submitted to the Federal Highway Administration (FHWA) as part of the 2010 RRSVS. A more detailed and comprehensive operations and safety analysis will be required if the interchange access process moves forward.
 - If FHWA determines that the warrant analysis has merit to proceed to the next step, an Interstate Access Request (IAR) would be prepared. This process would address operations and safety on I-494 in greater detail. Based on input from FHWA and Mn/DOT during the 2010 RRSVS, this analysis would require a formal layout for the interchange and other access changes, as well as an environmental study that meets state and federal requirements.

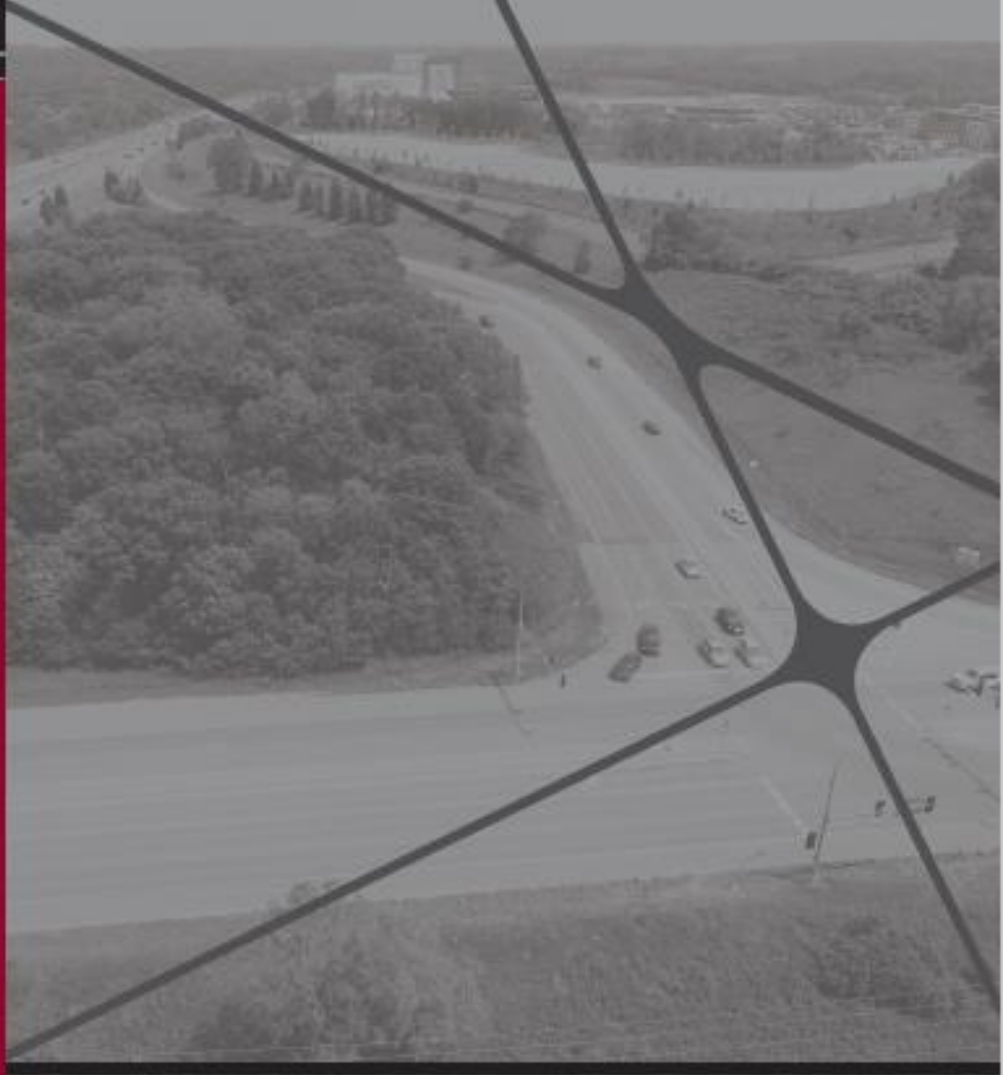
The RRSVS agency partners should pursue a variety of funding sources, both public and private, to implement the transportation vision for the RRSVS study area. As individual projects move into the engineering phase, the alignments and specific property impacts would be determined by the partner agencies and additional environmental review and public engagement would be conducted.

STUDY ADOPTION

To conclude the RRSVS Update study, in August and September 2022 the recommendations were presented to the City of Eagan, City of Inver Grove Heights, City of Mendota Heights, City of Sunfish Lake, and Dakota County Board for adoption. The signed resolutions from each city and the county board are provided in the Appendix.

Appendix: City Council and County Board Resolutions

Resolutions will be added following action by city councils and County Board.



Request for Council Action

SUBJECT: **Accept Proposal and Enter Contract for Engineering Staff Augmentation Services with Bolton & Menk, Inc.**

MEETING DATE: August 22, 2022

ITEM TYPE: Consent Agenda

CONTACT: Brian Connolly, Public Works Director, 651.450.2571

ACTION REQUESTED

The Council is asked to adopt the attached Resolution, accepting the attached proposal and authorizing a contract with Bolton & Menk, Inc. to provide a staff augmentation engineer for a period of six months.

BACKGROUND

The Engineering Division has had three positions vacated since June of this year, due to the retirement of the City Engineer and Office Support Specialist, and the voluntary resignation of a Civil Engineer. While the City Engineer and Office Support Specialist positions are anticipated to be filled prior to the end of 2022, staff recommends taking more time to solicit and fill the Civil Engineer role, given recent challenges faced by neighboring cities in filling similar roles, a limited candidate pool, and the desire to have the new City Engineer, once hired, have the opportunity to review the Engineering Division's organizational structure, and make possible recommendations or adjustments to the Civil Engineer position requirements.

As staff workload has not eased, however, staff recommend the use of a consulting engineer to provide for staff augmentation needs on a short-term basis. The staff augmentation engineer will work in City Hall alongside current staff as a temporary member of the Engineering Division. The staff augmentation engineer will work a minimum of 32 hours/week (maximum of 40 hours/week), and perform the primary duties of the Civil Engineer role, to assist in balancing the overall workload of the Division.

Staff solicited proposals from the engineering consulting firms of Bolton & Menk, Inc., WSB, and Kimley-Horn & Associates, Inc. Upon reviewing the qualifications of the staff proposed by each firm, their familiarity with the City of Inver Grove Heights based on past and present project work and staff interaction, and the hourly billing rates, staff recommend entering into a contract with Bolton & Menk, Inc. to provide a staff augmentation engineer for an initial period of six months, with an option to extend the contract an additional six months depending on workload, staff augmentation needs, and budgetary constraints.

FISCAL IMPACT

Staff anticipates budgetary savings of approximately \$93,000 within the 2022 salary budgets for the vacancy period of the roles of City Engineer, Office Support Specialist, and Civil Engineer. The anticipated savings in 2023 is approximately \$24,000 for the vacant Civil Engineer position for the

initial period where the staff augmentation role would be active (through early-March, 2023). The Engineering Division also has an unallocated 2022 balance of approximately \$40,000 for "Engineering Consultants", which can also be utilized to finance the staff augmentation position. This brings the total available funding for a staff augmentation engineer to \$157,000.

The proposed contract with Bolton & Menk would utilize a maximum of \$130,000, to be paid for under the "Other Professional Services" budget item (101.43.5100.442.30700). Staff anticipate carrying any unspent 2022 budgetary savings forward into 2023.

RECOMMENDATION

Staff recommends approval of the attached Resolution, the acceptance proposal and entering into a contract for Engineering Staff Augmentation services with Bolton & Menk, Inc.

ATTACHMENTS

1. RESOLUTION - Engineering Staff Augmentation
2. Bolton & Menk - Staff Augmentation Proposal

**CITY OF INVER GROVE HEIGHTS
DAKOTA COUNTY, MINNESOTA**

**RESOLUTION ACCEPTING PROPOSAL AND ENTERING A CONTRACT FOR
ENGINEERING STAFF AUGMENTATION**

RESOLUTION NO. _____

WHEREAS, since June, 2022, three (3) Engineering Division positions have been vacated due to retirements and staff resignation, resulting in a backlog of work and a need to explore options to augment existing staff capabilities on a short-term basis until new staff can be hired; and

WHEREAS, the Public Works Director solicited proposals from three (3) qualified engineering consulting firms within the City's engineering consultant pool to provide a staff augmentation engineer for an initial period of six months, with an option to extend the contract an additional six months depending on workload, staff augmentation needs, and budgetary constraints, and with the mutual approval of the City and the engineering consultant; and

WHEREAS, the Public Works Director, in consultation with Engineering Division staff, has reviewed the submitted proposals, and believe the staff engineer proposed by Bolton & Menk, Inc. possesses the best-balanced qualifications and familiarity with the city and the Engineering Division through past work efforts to fill the staff augmentation engineer role; and

WHEREAS, funding is available within the Engineering Division budget due to cost savings associated with the salaries and benefits from the three currently vacant positions.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF INVER GROVE HEIGHTS THAT:

1. Bolton & Menk's proposal is hereby accepted for a staff augmentation engineer role.
2. The Mayor and Clerk are hereby authorized and directed to enter into a contract with Bolton & Menk, Inc. for the staff augmentation engineer role for an initial period of six months in accordance with the rates provided for in the submitted proposal, for a not-to-exceed amount of \$130,000.
3. Funding for the staff augmentation engineer contract shall come from the Engineering Division's "Other Professional Services" budget (101.43.5100.442.30700)

Adopted by the City Council of the City of Inver Grove Heights this 22nd day of August 2022.

Tom Bartholomew, Mayor

ATTEST:

Rebecca Kiernan, City Clerk



Real People. Real Solutions.

3507 High Point Drive North
Bldg. 1 Suite E130
Oakdale, MN 55128

Ph: (651) 704-9970
Bolton-Menk.com

August 9, 2022

Brian Connolly
Public Works Director

RE: RFP - Inver Grove Heights Engineering Staff Augmentation

Dear Mr. Connolly,

We have thoroughly reviewed your RFP for the Staff Augmentation position. We understand that this position is intended to help fill staffing gaps within the Engineering Department, specifically with respect to the staff Civil Engineer position. Based on the job description and duties listed in the RFP, we have a very strong candidate with extensive municipal engineering experience that can meet and exceed your expectations for this role.

Jason Malecha, a Project Engineer with our firm, has the experience, organizational skills, and communication skills to excel in the Staff Augmentation position. He started with our firm in 2015 and has been a key and desired member of our Municipal Group in Bolton & Menk's Burnsville office, working on a variety of infrastructure projects for our metro-area clients. As demonstrated in the enclosed resume, Jason has a strong project experience portfolio as well as a number of professional certifications. In addition to his technical skill, Jason has an upbeat and positive personality, is a mentor to our developing staff and has an internal drive and passion for the municipal engineering field. Just as he has demonstrated in our Burnsville office, Jason can serve as a technical expert and mentor while working alongside city staff. Jason has an eagerness to lead projects and expressed a high level of enthusiasm for this opportunity. In addition to the explicit roles identified in the RFP, we feel that Jason can provide strong service to the City of Inver Grove Heights in the following ways:

Plan Development in AutoCAD Civil3D

Over the last 12-18 months, as part of an ongoing effort to streamline in-house design efforts for street improvement projects, the City of Inver Grove Heights began utilizing a Civil3D template and CAD Standards process developed by Bolton & Menk. Jason is a very proficient Civil3D user specifically with respect to Bolton & Menk's CAD template, CAD standards manual, and design processes. He routinely works with and trains our less experienced staff both on the software side as well as the civil design side. Jason's experience with these tools and processes will be a significant on-hand resource for City of Inver Grove Heights staff tasked with assembling high quality construction plan sets. The immediacy with which Jason will be able to provide the correct direction to City staff developing plans will also allow him more time to work on other department initiatives.

Availability

Jason is a coveted member of our group and is routinely sought as a key project team lead by Bolton & Menk project managers. Jason is so sought after that at the time of this proposal, Jason has a scheduled workload through the end of 2022 amounting to an equivalent of 1.5 Full-Time Employees (FTE's). However, Bolton & Menk understands the importance of the Inver Grove Heights Staff Augmentation

Name: Brian Connolly
Date: August 9, 2022
Page: 2

position and we are fully committed to immediately backfilling Jason's current workload, making him available on a full-time basis for at least the next six months, starting immediately upon contract award or as desired by city staff. By clearing Jason's workload, he can focus entirely on the city's needs and initiatives without distraction.

Bolton & Menk Network

As an employee of Bolton & Menk, Jason has access to a vast network of technical experts in a variety of disciplines. We as a firm routinely communicate with each other in order to get technical advice, differing opinions, and solve complex problems. We are built on streamlining workload and being efficient -- topics that we understand through the RFP to be key initiatives for the engineering department. Jason will have the ability to continue tapping into his Bolton & Menk network, as necessary, to bring new ideas and solutions to the department's technical challenges as well as its pursuit of efficiency.

Fee Structure

In accordance with the RFP, Jason's work with the city would be billed at an hourly rate of \$125 per hour with a weekly minimum of 32 hours and weekly maximum of 40 hours. Based on Jason's experience level as a Project Engineer, his billing rate for project-based work is typically \$142 per hour. We understand the city is facing unforeseen staffing circumstances and could be operating on a fixed budget. For that reason, and in continued partnership with the city, we are pleased to offer a reduced hourly rate of \$125 per hour. We will work with you and Inver Grove Heights staff to tailor the weekly hours in order to best meet the needs of the city.

Sincerely,

Bolton & Menk, Inc.



Eric Seaburg, PE
Principal Engineer

Authorized By:

City Representative
City of Inver Grove Heights



Jason A Malecha, PE
Project Engineer



Real People. Real Solutions.

Education

Bachelor of Science - Civil Engineering
Iowa State University

Registration

- Professional Engineer, MN

Certifications

Minnesota Department of Transportation (MnDOT)

- Aggregate Production
- Bituminous Street I
- Bituminous Street II
- Concrete Field I
- Concrete Field II
- Grading and Base I
- Grading and Base II

Organizations

- American Public Works Association-MN Chapter
- MN Surveyors and Engineers Society

Summary

Jason is a project engineer with Bolton & Menk, beginning his career in 2015. His design experience includes preparation of preliminary engineering and feasibility reports, development of construction plans and specifications, and production of detailed cost estimates for a variety of clients and projects. In addition to design, his experience includes detailed project inspection and documentation. Jason enjoys building relationships with clients while helping them solve issues and complete projects within their communities.

Experience

Project Experience

- Bonaire Path Extensions, City of Rosemount, MN
- Vicksburg Lane Improvements, City of Plymouth, MN
- Maple Island Road Sanitary Sewer and Trail Improvements, City of Burnsville, MN
- Tonka-Woodcroft Improvements, City of Minnetonka, MN
- Duck Lake Road Improvements, City of Eden Prairie, MN
- Zumbro Falls/2020 TH 60 Sanitary Sewer, City of Zumbro Falls, MN
- Interlachen Park Street and Utility Improvements, City of Hopkins, MN
- Downtown Streetscape and Infrastructure Improvements, City of Iowa Falls, IA
- Entrance Road & Parking Lot Reconstruction, City of Winsted, MN
- Cambridge Street Bridge, City of Hopkins, MN
- NE Penn Drainage Area Improvements, City of Bloomington, MN
- Snow Removal Equipment Building, City of Blue Earth, MN
- Lyndale Avenue Reconstruction, City of Richfield, MN
- Bluff View Subdivision Phase I, City of Northfield, MN
- Highway 282 and Creek Lane Improvements, City of Jordan, MN
- Bryant Avenue South Reconstruction, City of Minneapolis, MN
- Westview Street & Utility Improvements, City of Farmington, MN
- Rochester Public Schools Pavement Management Plan, ISD 535
- Cedar Lake Road Improvements, City of St. Louis Park, MN
- Wastewater Treatment Facility Improvements, Worthington Public Utilities, MN

Other Applicable Skills

- Construction Management
- Civil Design & Plan Preparation
- Process Improvement & Innovation
- Staff Development
- Working in Teams
- Clear Communicator
- Relationship Building
- Time Management

Request for Council Action

SUBJECT: **Approval of Easement Agreements for Argenta Trail Drainage Improvement Project (Project No. 2020-12)**

MEETING DATE: August 22, 2022

ITEM TYPE: Consent Agenda

CONTACT: Brian Connolly, Public Works Director, 651.450.2571

ACTION REQUESTED

The Council is asked to adopt the attached Resolutions, approving easement acquisition agreements associated with temporary construction and permanent drainage and utility easements required for the construction of the Argenta Trail Drainage Improvement project (City Project. No. 2020-12).

BACKGROUND

On September 13, 2021, the City Council approved Resolution 2021-249, awarding a final design contract to Kimley-Horn & Associates, Inc., to perform final design work associated with City Project No. 2020-12 - Argenta Trail Drainage Improvements, and to coordinate necessary easement identification. As part of the Resolution, staff were also authorized to begin securing easements for the project.

Staff worked with Kimley-Horn and the City Attorney's office to secure the necessary easements associated with the project. The Council is being asked to consider approval of two easement acquisitions:

1. **1600 69th Street West** (Lot 9, Franke's Lakeview, PID 20-27700-00-090) - Temporary Construction Easement and Permanent Drainage & Utility Easement (\$300)
2. **6760 Arkansas Avenue** (PID 20-00600-53-030) - Permanent Drainage & Utility Easement (\$11,200)

The property owners have agreed to and signed their respective Easement Agreements.

FISCAL IMPACT

The initial costs for easement acquisition are being paid through the Northwest Area Storm Sewer Fund (448), and will be 100% reimbursed by Dakota County, in accordance with the Jurisdictional Transfer Agreement entered into between the City and Dakota County (Resolution 2022-127).

RECOMMENDATION

Staff recommends adoption of the attached Resolutions, approving the easement agreements for 1600 69th Street West and 6760 Arkansas Avenue in conjunction with City Project. No. 2020-12 - Argenta Trail Drainage Improvements.

ATTACHMENTS

1. Resolution - Easement (1600 69th Street)
2. Resolution - Easement (6760 Arkansas Ave)
3. D&U & Temp Easement Agreement (1600 69th Street)
4. D&U Easement Agreement (6760 Arkansas Ave)

**CITY OF INVER GROVE HEIGHTS
DAKOTA COUNTY, MINNESOTA**

**RESOLUTION APPROVING EASEMENT ACQUISITION AGREEMENT FOR 1600 69TH STREET WEST
FOR CITY PROJECT NO. 2020-12 – ARGENTA TRAIL DRAINAGE IMPROVEMENTS**

RESOLUTION NO. _____

WHEREAS, the City Council authorized the development of engineering plans and acquisition of easements for the required work on City Project No. 2020-12 on September 13, 2021; and

WHEREAS, plans have been developed and both a temporary and permanent easement is necessary to construct an outlet pipe to convey stormwater from the property at 1600 69th Street West; and

WHEREAS, the Owners of the property at 1600 69th Street West are willing to convey the required easements to the City pursuant to the terms of the attached Easement Agreement.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF INVER GROVE HEIGHTS THAT:

1. The City Council approves the attached Easement Agreement for a permanent drainage and utility easement, and a temporary easement for construction purposes, for the property at 1600 69th Street West as part of City Project 2020-12 – Argenta Trail Drainage Improvements; and
2. The City Council authorizes the execution of the Easement Agreement and recording of the related permanent drainage and utility easement and temporary easement for construction with Dakota County.

Adopted by the City Council of the City of Inver Grove Heights this 22nd day of August 2022.

Tom Bartholomew, Mayor

Rebecca Kiernan, City Clerk

**CITY OF INVER GROVE HEIGHTS
DAKOTA COUNTY, MINNESOTA**

**RESOLUTION APPROVING EASEMENT ACQUISITION AGREEMENT FOR 6760
ARKANSAS AVENUE FOR CITY PROJECT NO. 2020-12 – ARGENTA TRAIL DRAINAGE
IMPROVEMENTS**

RESOLUTION NO. _____

WHEREAS, the City Council authorized the development of engineering plans and acquisition of easements for the required work on City Project No. 2020-12 on September 13, 2021; and

WHEREAS, plans have been developed and a permanent easement is necessary to construct an outlet pipe and drainage swale to convey stormwater across the property at 6760 Arkansas Avenue; and

WHEREAS, the Owner of the property at 6760 Arkansas Avenue is willing to convey the required easements to the City pursuant to the terms of the attached Easement Agreement.

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF
INVER GROVE HEIGHTS THAT:**

1. The City Council approves the attached Easement Agreement for a permanent drainage and utility easement for the property at 6760 Arkansas Avenue as part of City Project 2020-12 – Argenta Trail Drainage Improvements; and
2. The City Council authorizes the execution of the Easement Agreement and recording of the related permanent drainage and utility easement with Dakota County.

Adopted by the City Council of the City of Inver Grove Heights this 22nd day of August 2022.

Tom Bartholomew, Mayor

Rebecca Kiernan, City Clerk

**PERMANENT DRAINAGE AND UTILITY EASEMENT AND
TEMPORARY EASEMENT FOR CONSTRUCTION PURPOSES**

THIS EASEMENT AGREEMENT (“Easement”) is made, granted and conveyed this _____ day of _____, 2022, by and between The Trust Agreement of Richard and Anna Cady (“Landowner”), and the City of Inver Grove Heights, a Minnesota municipal corporation (“City”). Landowner in consideration of the sum of One Dollar and other good and valuable consideration to them in hand paid by the City, the receipt and sufficiency of which is hereby acknowledged, does hereby grant and convey unto the City, its successors and assigns, this Easement.

PROPERTY DESCRIPTION

Landowner owns real property in Dakota County, Minnesota, legally described as follows:

Lot 9, Franke’s Lakeview, Dakota County, Minnesota.

Abstract Property

PID: 20-27700-00-090

(“Landowner’s Property”).

PERMANENT DRAINAGE AND UTILITY EASEMENT DESCRIPTION

The Landowner does hereby grant and convey unto the City, its successors and assigns, forever the following:

A permanent easement for utility and drainage purposes and all such purposes ancillary, incident or related thereto (“Permanent Easement”) under, over and across that real property legally described on Exhibit A and likewise depicted on Exhibit B (the “Permanent Easement Area”), attached hereto and incorporated herein by reference.

The Permanent Easement rights granted herein are forever and shall include, the construction, maintenance, repair and replacement of any sanitary sewer, storm sewer, water mains, storm water facilities, above ground and below ground drainage facilities, any utilities, underground pipes,

conduits, culverts, other utilities and mains, and all facilities and improvements ancillary, incident or related thereto, under, over and across the Permanent Easement Area.

The Permanent Easement rights further include, but are not limited to, the right of ingress and egress over the Permanent Easement Area to access the Permanent Easement for the foregoing purposes.

TEMPORARY CONSTRUCTION EASEMENT DESCRIPTION

The Landowner does hereby grant and convey unto the City, its successors and assigns, the following:

A temporary construction easement for grading, sloping and construction purposes in accordance with the plans and specifications provided by the City, and all such purposes ancillary, incident or related thereto ("Temporary Easement") under, over, across, through and upon the real property legally described on Exhibit A and likewise depicted on Exhibit B ("Temporary Easement Area"), attached hereto and incorporated herein by reference.

The Temporary Easement shall terminate on June 30, 2023.

The rights of the City also include the right of the City, its contractors, agents and servants:

- (a) To enter upon the Permanent Easement Area and Temporary Easement Area at all reasonable times for the purposes of construction, reconstruction, inspection, repair, replacement, grading, sloping, and restoration relating to the purposes of the Permanent Easement and Temporary Easement; and
- (b) To maintain the Permanent Easement Area, Temporary Easement Area, any City improvements and any underground pipes, conduits, or mains, together with the right to excavate and refill ditches or trenches for the location of such pipes, conduits or mains; and
- (c) To remove from the Permanent Easement Area and Temporary Easement Area trees, brush, herbage, aggregate, undergrowth and other obstructions interfering with the location, construction and maintenance of the utility pipes, conduits, mains and above ground and below ground drainage facilities and to deposit earthen material in and upon the Permanent Easement Area and Temporary Easement Area; and
- (d) To remove or otherwise dispose of all earth or other material excavated from the Permanent Easement Area and Temporary Easement Area as the City may deem appropriate.

The City shall not be responsible for any costs, expenses, damages, demands, obligations, penalties, attorneys' fees and losses resulting from any claims, actions, suits, or proceedings based upon a release or threat of release of any hazardous substances, petroleum, pollutants, and contaminants which may have existed on, or which relate to the Permanent Easement Area, Temporary Easement Area or the Landowner's Property, prior to the date hereof.

Nothing contained herein shall be deemed a waiver by the City of any governmental immunity defenses, statutory or otherwise.

The Landowner, for itself and its successors and assigns, does hereby warrant to and covenant with the City, its successors and assigns, that it is well seized in fee of Landowner's Property described above, the Permanent Easement Area and Temporary Easement Area described on Exhibit A and depicted on Exhibit B and has good right to grant and convey the Permanent Easement and Temporary Easement herein to the City.

This Easement is binding upon the heirs, successors, executors, administrators and assigns of the parties hereto.

This Easement may be executed in any number of counterparts, each of which shall be deemed an original but all of which shall constitute one and the same instrument.

EXEMPT FROM STATE DEED TAX

[The remainder of this page was intentionally left blank.]

IN TESTIMONY WHEREOF, the Landowner and the City have caused this Easement to be executed as of the day and year first above written.

LANDOWNER:

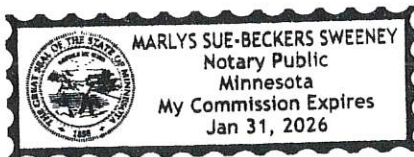
THE TRUST AGREEMENT OF RICHARD AND ANNA CADY

Richard D Cady
Richard Cady, Trustee

Anna C Cady
Anna Cady, Trustee

STATE OF MINNESOTA)
)
COUNTY OF _____) ss.

The foregoing instrument was acknowledged before me on this 5 day of August, 2022, by Richard Cady and Anna Cady, as Trustees of The Trust Agreement of Richard and Anna Cady, on behalf of said trust.



Marlys Sue-Beckers Sweeney
Notary Public

CITY:
CITY OF INVER GROVE HEIGHTS

Thomas Bartholomew, Mayor

Rebecca Kiernan, City Clerk

STATE OF MINNESOTA)
) ss.
COUNTY OF DAKOTA)

On this ____ day of _____, 2022, before me a Notary Public within and for said County, personally appeared Thomas Bartholomew and Rebecca Kiernan, to me personally known, who being each by me duly sworn, each did say that they are respectively the Mayor and City Clerk of the City of Inver Grove Heights, the Minnesota municipality named in the foregoing instrument, and that the seal affixed to said instrument was signed and sealed on behalf of said municipality by authority of its City Council and said Mayor and City Clerk acknowledged said instrument to be the free act and deed of said municipality.

Notary Public

This Instrument Was Drafted By
And After Recording Return To:
LeVander, Gillen & Miller, P.A.
1305 Corporate Center Drive, Suite 300
Eagan, MN 55121
(651) 451-1831

EXHIBIT A
LEGAL DESCRIPTION OF PERMANENT EASEMENT AREA AND
TEMPORARY EASEMENT AREA

PERMANENT EASEMENT AREA

A 10 foot wide easement for drainage and utility purposes lying within Landowner's Property. The center line of said 10 foot easement described as follows:

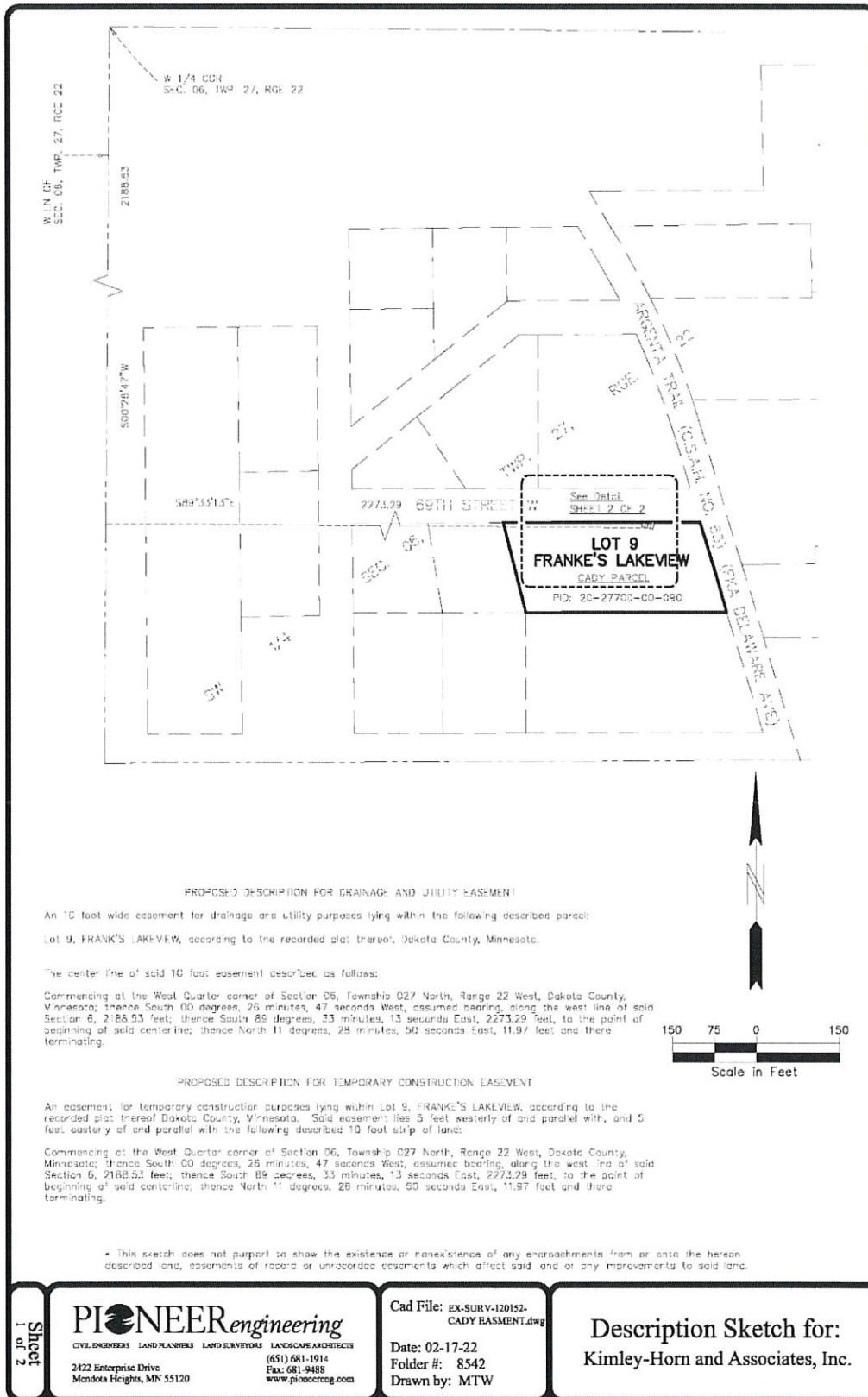
Commencing at the West Quarter corner of Section 06, Township 027 North, Range 22 West, Dakota County, Minnesota; thence South 00 degrees, 26 minutes, 47 seconds West, assumed bearing, along the west line of said Section 6, 2188.53 feet; thence South 89 degrees, 33 minutes, 13 seconds East, 2273.29 feet, to the point of beginning of said centerline; thence North 11 degrees, 28 minutes, 50 seconds East, 11.97 feet and there terminating.

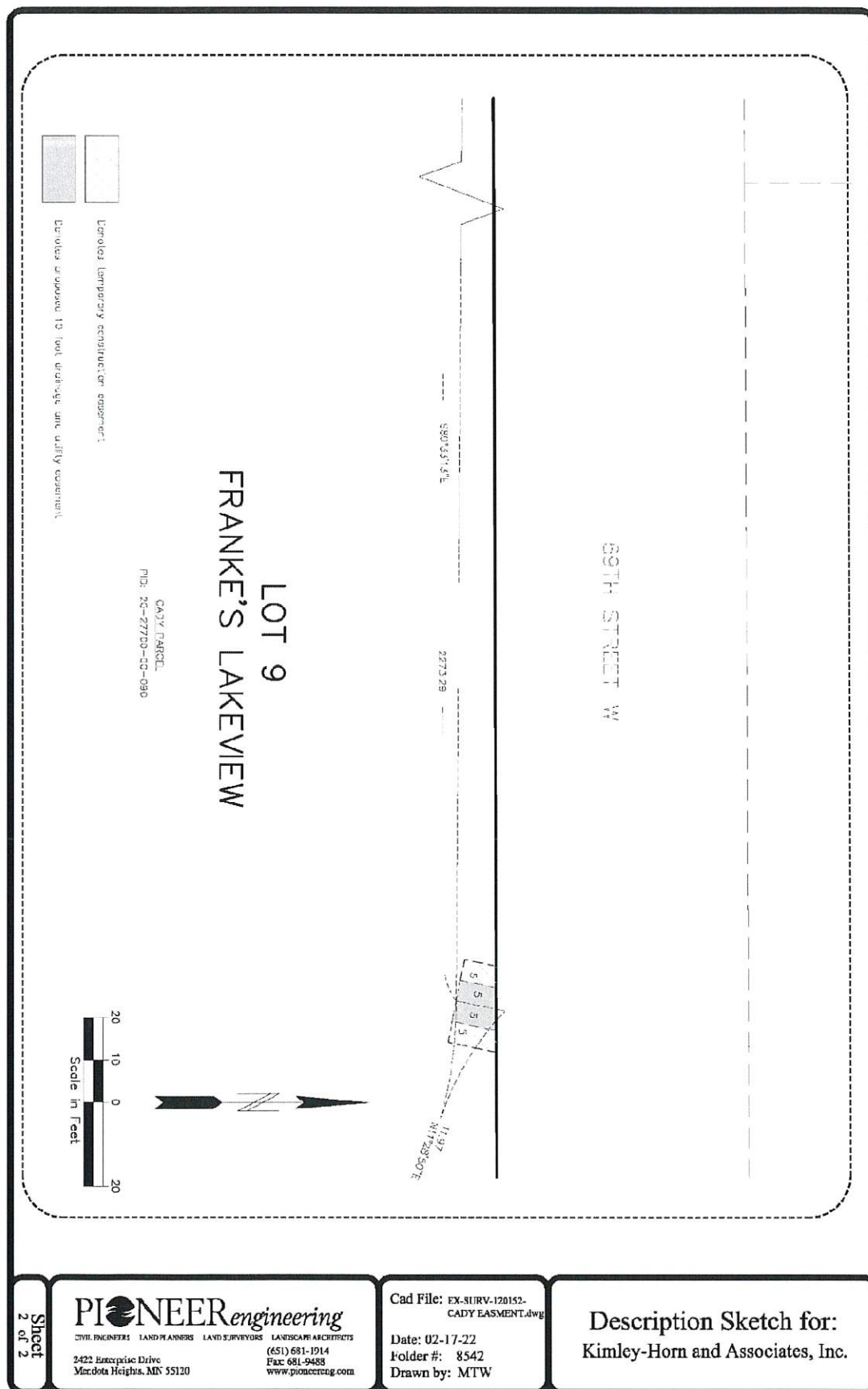
TEMPORARY EASEMENT AREA

An easement for temporary construction purposes lying within Landowner's Property. Said easement lies 5 feet westerly of and parallel with, and 5 feet easterly of and parallel with the following described 10 foot strip of land:

Commencing at the West Quarter corner of Section 06, Township 027 North, Range 22 West, Dakota County, Minnesota; thence South 00 degrees, 26 minutes, 47 seconds West, assumed bearing, along the west line of said Section 6, 2188.53 feet; thence South 89 degrees, 33 minutes, 13 seconds East, 2273.29 feet, to the point of beginning of said centerline; thence North 11 degrees, 28 minutes, 50 seconds East, 11.97 feet and there terminating.

EXHIBIT B **DEPICTION OF PERMANENT EASEMENT AREA AND** **TEMPORARY EASEMENT AREA**





Sheet
2 of 2

PIONEERengineering
 CIVIL ENGINEERS LAND PLANNERS LAND SURVEYORS LANDSCAPE ARCHITECTS
 2422 Enterprise Drive
 Mendota Heights, MN 55120
 (651) 681-1914
 Fax: 681-9488
 www.pioneereng.com

Cad File: EX-SURV-120152-
CADD EASMENT.dwg

Date: 02-17-22
 Folder #: 8542
 Drawn by: MTW

Description Sketch for:
 Kimley-Horn and Associates, Inc.

**MORTGAGEE'S CONSENT TO
EASEMENT**

Hiway Federal Credit Union, organized and existing under the laws of Minnesota ("Mortgagee"), is the mortgagee of the following mortgages and/or interests:

1. Mortgage executed by Richard D. Cady and Anna E. Cady, as Trustees of the Trust Agreement of Richard and Anna Cady, in favor of Hiway Credit Union, dated January 26, 2021, filed March 23, 2021, as Document No. 3449348 in the office of the County Recorder for Dakota County, Minnesota,

which is recorded against the following real property:

Lot 9, Franke's Lakeview, Dakota County, Minnesota.

Abstract Property

PID: 20-27700-00-090

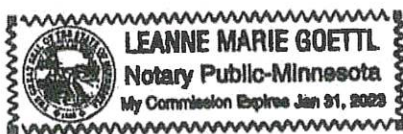
For valuable consideration, the receipt and adequacy of which are hereby acknowledged, Mortgagee hereby CONSENTS to the easement to which this Consent is attached ("Easement") and agrees that its liens, rights and remedies under the above-described document shall be SUBORDINATED AND SUBJECT IN ALL WAYS to the provisions of said Easement.

MORTGAGEE:

By: Andrew Deans
Name: Andrew Deans
Its: Authorized Officer

STATE OF Minnesota)
)ss.
COUNTY OF Ramsey)

On this 1 day of August, 2022 before me, a Notary Public, personally appeared Andrew Deans to me personally known, who, after being first duly sworn, did state that he/she is the Authorized Officer of Hiway Federal Credit Union, organized and existing under the laws of Minnesota, and that he/she signed the same on behalf of said Hiway Federal Credit Union.



Leanne Goettl
Notary Public

PERMANENT DRAINAGE AND UTILITY EASEMENT

THIS EASEMENT AGREEMENT ("Easement") is made, granted and conveyed this _____ day of _____, 2022, by and between Judy M. Leach Trust U/A dated July 19, 2000, as amended ("Landowner"), and the City of Inver Grove Heights, a Minnesota municipal corporation ("City"). Landowner in consideration of the sum of \$22,900.00 and other good and valuable consideration to them in hand paid by the City, the receipt and sufficiency of which is hereby acknowledged, does hereby grant and convey unto the City, its successors and assigns, this Easement.

PROPERTY DESCRIPTION

Landowner owns real property in Dakota County, Minnesota, legally described as follows:

That part of the E ½ of the SW ¼ of Section 6, Township 27, Range 22, described as follows, to-wit: Commencing at the Northeast corner of Lot 1 of Franke's Lakeview, running thence East along the Easterly extension of the North line of said Lot 1 to the center line of SAR No. 63, also known as Delaware Avenue, thence Northwesterly along the center line of said SAR No. 63 to a point on a line running 300 feet North of and parallel to the North line of said Lot 1, thence West along said parallel line a distance of 445 feet more or less to the center line of Helen Lane as platted in said Franke's Lakeview extended North, thence South along the center line of Helen Lane and the Northerly extension thereof a distance of 300 feet to a point on the Westerly extension of the North line of Lots 1, 2 and 3, of said Franke's Lakeview, running thence East along said North line to Lots 1, 2 and 3, and the Westerly extension thereof, to the point of beginning, to date, as the same appears from the abstract books and the land records of the office of the Register of Deeds of Dakota County, Minnesota.

Abstract Property
PID: 20-00600-53-030

("Landowner's Property").

PERMANENT DRAINAGE AND UTILITY EASEMENT DESCRIPTION

The Landowner does hereby grant and convey unto the City, its successors and assigns, forever the following:

A permanent easement for utility and drainage purposes and all such purposes ancillary, incident or related thereto ("Permanent Easement") under, over and across that real property legally described on Exhibit A and likewise depicted on Exhibit B (the "Permanent Easement Area"), attached hereto and incorporated herein by reference.

The Permanent Easement rights granted herein are forever and shall include, the construction, maintenance, repair and replacement of any sanitary sewer, storm sewer, water mains, storm water facilities, above ground and below ground drainage facilities, any utilities, underground pipes, conduits, culverts, other utilities and mains, and all facilities and improvements ancillary, incident or related thereto, under, over and across the Permanent Easement Area.

The Permanent Easement rights further include, but are not limited to, the right of ingress and egress over the Permanent Easement Area to access the Permanent Easement for the foregoing purposes.

The rights of the City also include the right of the City, its contractors, agents and servants:

- (a) To enter upon the Permanent Easement Area at all reasonable times for the purposes of construction, reconstruction, inspection, repair, replacement, grading, sloping, and restoration relating to the purposes of the Permanent Easement; and
- (b) To maintain the Permanent Easement Area, any City improvements and any underground pipes, conduits, or mains, together with the right to excavate and refill ditches or trenches for the location of such pipes, conduits or mains; and
- (c) To remove from the Permanent Easement Area trees, brush, herbage, aggregate, undergrowth and other obstructions interfering with the location, construction and maintenance of the utility pipes, conduits, mains and above ground and below ground drainage facilities and to deposit earthen material in and upon the Permanent Easement Area; and
- (d) To remove or otherwise dispose of all earth or other material excavated from the Permanent Easement Area as the City may deem appropriate.

The City shall not be responsible for any costs, expenses, damages, demands, obligations, penalties, attorneys' fees and losses resulting from any claims, actions, suits, or proceedings based upon a release or threat of release of any hazardous substances, petroleum, pollutants, and contaminants which may have existed on, or which relate to the Permanent Easement Area or the Landowner's Property, prior to the date hereof.

Nothing contained herein shall be deemed a waiver by the City of any governmental immunity defenses, statutory or otherwise.

The Landowner, for itself and its successors and assigns, does hereby warrant to and covenant with the City, its successors and assigns, that it is well seized in fee of Landowner's Property described above, the Permanent Easement Area described on Exhibit A and depicted on Exhibit B and has good right to grant and convey the Permanent Easement herein to the City.

This Easement is binding upon the heirs, successors, executors, administrators and assigns of the parties hereto.

This Easement may be executed in any number of counterparts, each of which shall be deemed an original but all of which shall constitute one and the same instrument.

EXEMPT FROM STATE DEED TAX

[The remainder of this page was intentionally left blank.]

IN TESTIMONY WHEREOF, the Landowner and the City have caused this Easement to be executed as of the day and year first above written.

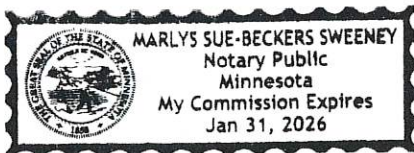
LANDOWNER:

JUDY M. LEACH TRUST U/A DATED JULY 19, 2000, AS AMENDED

Judy Leach
Name: Judy Leach, Trustee

STATE OF MINNESOTA)
) ss.
COUNTY OF Dakota)

The foregoing instrument was acknowledged before me on this 17 day of August, 2022, by Judy Leach, as Trustee of Judy M. Leach Trust U/A dated July 19, 2000, as amended, on behalf of said trust.



Marlys Sue Beckers Sweeney
Notary Public

CITY:
CITY OF INVER GROVE HEIGHTS

Thomas Bartholomew, Mayor

Rebecca Kiernan, City Clerk

STATE OF MINNESOTA)
) ss.
COUNTY OF DAKOTA)

On this ____ day of _____, 2022, before me a Notary Public within and for said County, personally appeared Thomas Bartholomew and Rebecca Kiernan, to me personally known, who being each by me duly sworn, each did say that they are respectively the Mayor and City Clerk of the City of Inver Grove Heights, the Minnesota municipality named in the foregoing instrument, and that the seal affixed to said instrument was signed and sealed on behalf of said municipality by authority of its City Council and said Mayor and City Clerk acknowledged said instrument to be the free act and deed of said municipality.

Notary Public

This Instrument Was Drafted By
And After Recording Return To:
LeVander, Gillen & Miller, P.A.
1305 Corporate Center Drive, Suite 300
Eagan, MN 55121
(651) 451-1831

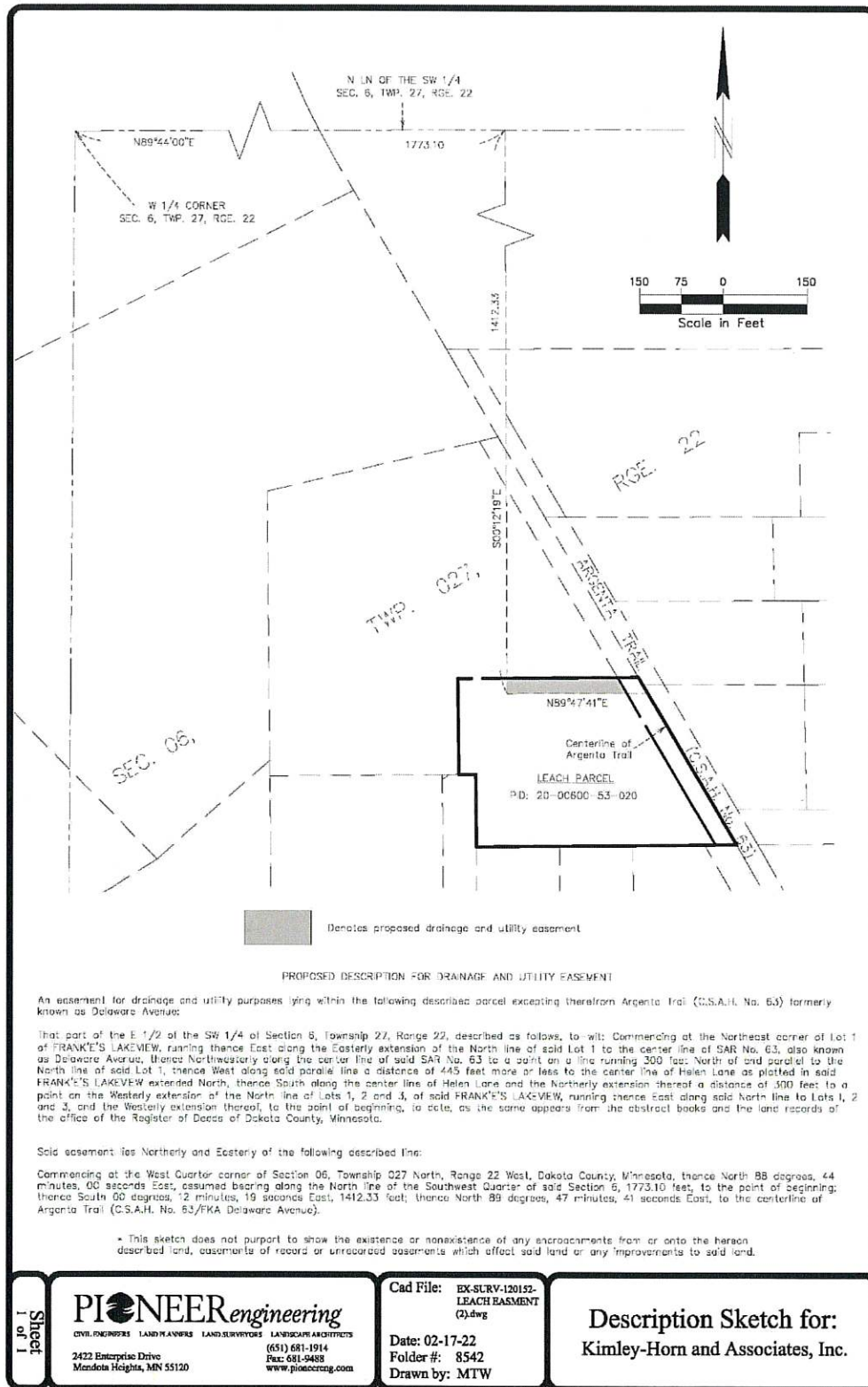
EXHIBIT A
LEGAL DESCRIPTION OF PERMANENT EASEMENT AREA

An easement for drainage and utility purposes lying within Landowner's Property excepting therefrom Argenta Trail (C.S.A.H. No. 63) formerly known as Delaware Avenue.

Said easement lies Northerly and Easterly of the following described line:

Commencing at the West Quarter corner of Section 06, Township 027 North, Range 22 West, Dakota County, Minnesota, thence North 88 degrees, 44 minutes, 00 seconds East, assumed bearing along the North line of the Southwest Quarter of said Section 6, 1773.10 feet, to the point of beginning; thence South 00 degrees, 12 minutes, 19 seconds East, 1412.33 feet; thence North 89 degrees, 47 minutes, 41 seconds East, to the centerline of Argenta Trail (C.S.A.H. No. 63/FKA Delaware Avenue).

EXHIBIT B **DEPICTION OF PERMANENT EASEMENT AREA**



Request for Council Action

**SUBJECT: Award Contract and Approve Budget for City Project
No. 2020-12 - Argenta Trail Drainage Improvements**

MEETING DATE: August 22, 2022

ITEM TYPE: Consent Agenda

CONTACT: Brian Connolly, Public Works Director, 651.450.2571

ACTION REQUESTED

The Council is asked to adopt the attached Resolutions, awarding a contract and approving a budget for City Project No. 2020-12 - Argenta Trail Drainage Improvements.

BACKGROUND

Bids on City Project No. 2020-12 - Argenta Trail Drainage Improvements were opened at 10:00 a.m. on August 16, 2022. Six bids were received. The low bidder for the project was Bituminous Roadways, Inc. with a total bid of \$342,331. The low bid is over the engineer's estimate of \$309,900 by approximately 10%. Along with the competitive bid, the legal, engineering, administrative, and financing (LEAF) costs bring the total estimated project cost to \$601,964.10.

The increase in bid values is due to a few key factors, including bidding for the project to be completed in 2022 to limit the impact on adjacent properties, to coordinate access with the ongoing 70th Street/Argenta Trail project being performed by Dakota County, and general construction material inflationary factors being seen across the utility construction industry. City and consultant staff, in consultation with Dakota County, who is reimbursing the City for 100% of the project costs, believe the bids to be reasonable, and any rebidding and/or postponing of the project work until 2023 will likely result in higher construction bids. City staff believe it is prudent to proceed with awarding the contract at the present time.

As part of the budget approval, staff is also recommending acceptance of a quote from Kimley-Horn & Associates, Inc. to perform construction administration services and provide oversight of City Project No. 2020-12. Kimley-Horn provided feasibility and final design phase services for the project, has been integral in securing the necessary easements for the project, and has developed working relationships with the neighboring property owners. Kimley-Horn is currently providing construction services for the City related to the adjacent 70th Street/Argenta Trail project, so there are additional cost savings in staff efficiencies due to proximity of the two projects.

FISCAL IMPACT

Staff developed the following budget summary table and funding Resolution to clarify and set the project budget at the time of the contract award. The project costs for City Project. No. 2020-12 are summarized as follows:

Improvement Type	Low Bid (Contract Award)	Legal, Eng., Admin, & Finance (LEAF) Costs	Easement Acquisition	10% Construction Contingency	Proposed Budget
Storm Sewer	342,331.00	150,000.00	75,400.00	34,233.10	601,964.10
Total	\$342,331.00	\$150,000.00	\$75,400.00	\$34,233.10	\$601,964.10

Funding for City Project No. 2020-12 is being paid initially through the Northwest Area Storm Sewer Fund (448), and will be 100% reimbursed by Dakota County, in accordance with the Jurisdictional Transfer Agreement entered into between the City and Dakota County (Resolution 2022-127).

RECOMMENDATION

Staff recommends adoption of the attached Resolutions, awarding a contract to Bituminous Roadways, Inc. in the amount of \$342,331.00, and approving the budget and construction administration services for City Project No. 2020-12 - Argenta Trail Drainage Improvements.

ATTACHMENTS

1. Resolution Awarding Contract - 2020-12
2. Resolution Approving Budget - 2020-12
3. Kimley-Horn Proposal for Construction Administration

**CITY OF INVER GROVE HEIGHTS
DAKOTA COUNTY, MINNESOTA**

**RESOLUTION AWARDING CONTRACT TO BITUMINOUS ROADWAYS, INC. FOR
CITY PROJECT NO. 2020-12 – ARGENTA TRAIL DRAINAGE IMPROVEMENTS**

RESOLUTION NO. _____

WHEREAS, pursuant to an advertisement for bids for City Project No. 2020-12 – Argenta Trail Drainage Improvements, bids were received and opened on August 16, 2022, at 10:00 a.m., read aloud, and tabulated according to law. The following bids were received complying with the advertisement:

Contractor	Bid Bond (5%)	Addendum #1 Acknowledged	Base Bid
Bituminous Roadways, Inc.	Yes	Yes	\$342,331.00
Danner, Inc.	Yes	Yes	\$362,459.00
S.M. Hentges & Sons, Inc.	Yes	Yes	\$364,606.00
Max Steininger, Inc.	Yes	Yes	\$370,222.42
Peterson Companies	Yes	Yes	\$446,801.42
Meyer Contracting, Inc.	Yes	Yes	\$466,848.87

WHEREAS, Bituminous Roadways, Inc. is the lowest responsible bidder for a total amount of \$342,331.00.

NOW, THEREFORE BE IT RESOLVED BY THE CITY COUNCIL OF INVER GROVE HEIGHTS THAT:

1. The Mayor and Clerk are hereby authorized and directed to enter a contract with Bituminous Roadways, Inc. in the name of the City of Inver Grove Heights, for City Project No. 2020-12 – Argenta Trail Drainage Improvements according to plans and specifications therefore approved by the Council and on file at the Office of the City Clerk.
2. Project funding for City Project No. 2020-12 in the amount of \$342,331.00 shall be provided through the Northwest Area Storm Water Fund.

Adopted by the City Council of the City of Inver Grove Heights on this 22nd day of August 2022.

Tom Bartholomew, Mayor

ATTEST:

Rebecca Kiernan, City Clerk

**CITY OF INVER GROVE HEIGHTS
DAKOTA COUNTY, MINNESOTA**

RESOLUTION NO. _____

**RESOLUTION APPROVING THE BUDGET AND AWARDING A CONSTRUCTION
ADMINISTRATION CONTRACT FOR CITY PROJECT NO. 2020-12 – ARGENTA TRAIL
DRAINAGE IMPROVEMENTS**

WHEREAS, the City Council has considered City Project No. 2020-12 – Argenta Trail Drainage Improvements, providing for the installation of storm sewer culverts, structures, ditch grading, appurtenances, and restoration; and

WHEREAS, staff have solicited a quote from the firm providing final design services on the project, Kimley-Horn & Associates, Inc., due to their expertise and experience with the project parameters, to provide construction administration and oversight services in conjunction with City Project No. 2020-12; and

WHEREAS, Kimley-Horn & Associates, Inc. has submitted a proposal dated August 12, 2022 for a not-to-exceed amount of \$27,700, to provide construction administration and oversight services; and

WHEREAS, finding the project to be necessary and beneficial to the orderly and efficient construction and/or maintenance of city infrastructure, the City Council has ordered the project and awarded a contract for project construction.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF INVER GROVE HEIGHTS THAT:

1. The following budget is hereby adopted for City Project No. 2020-12:

PROJECT COSTS	2020-12
Construction Bid	\$342,331.00
Legal, Engineering, Administrative, & Finance (LEAF) ⁽¹⁾	\$150,000.00
Easement Acquisition Costs	\$75,400.00
Construction Contingency (10%)	\$34,233.10
TOTAL	\$601,964.10

FUNDING SOURCES	2020-12
Stormwater Utility Fund ⁽²⁾	\$601,964.10
TOTAL	\$601,964.10

- (1) Cost based on expenditures to-date and construction administration & testing estimates as detailed in the Jurisdictional Transfer Agreement with Dakota County (Resolution 2022-127).
- (2) To be paid initially through the Northwest Area Storm Sewer Fund (448), and 100% reimbursed by Dakota County as detailed in the Jurisdictional Transfer Agreement.

2. Kimley-Horn & Associates, Inc.'s proposal in the amount of \$27,700 to provide construction administration and field oversight services for City Project No. 2020-12 is hereby accepted.

3. The Public Works Director is authorized to direct the use of contingency funds up to the approved amount for project work in the case of changes in site conditions, quantity adjustment, or unforeseen expenses necessary to complete the project as proposed.

Adopted by the City Council of the City of Inver Grove Heights on this 22nd day of August 2022.

Tom Bartholomew, Mayor

ATTEST:

Rebecca Kiernan, City Clerk

INDIVIDUAL PROJECT ORDER NUMBER 38B

Describing a specific agreement between Kimley-Horn and Associates, Inc. (the Consultant), and City of Inver Grove Heights (the Client) in accordance with the terms of the Master Agreement for Continuing Professional Services dated April 19, 2011, which is incorporated herein by reference.

Identification of Project:	Argenta Trail Drainage Improvements – Final Design 69 th Street to 65 th Street (Basin F-025) City Project CP 2020-12
General Category of Services:	Final design and construction services
Specific Scope of Basic Services:	Preparation of final plans, preparation of easement documents, property owner and agency coordination. See attached Exhibit A for a more detailed summary of the amended scope of services.
Additional Services if Required:	None identified at this time.
Schedule:	See attached Exhibit C.
Deliverables:	Final Construction Documents Easement Documents Record Drawings
Method of Compensation Exhibit B.	To be billed on an hourly (cost plus) basis as detailed in attached
Special Terms of Compensation:	None
Other Special Terms of Individual Project Order:	None

ACCEPTED:

CITY OF INVER GROVE HEIGHTS

BY: _____

TITLE: _____

DATE: _____

KIMLEY-HORN AND ASSOCIATES, INC.

DocuSigned by:
BY: Daniel J. Coyle
75280DC77C57426...

TITLE: Vice President

DATE: 8/12/2022

EXHIBIT A
SCOPE OF SERVICES

INDIVIDUAL PROJECT ORDER (IPO) NO. 38B

ARGENTA TRAIL DRAINAGE IMPROVEMENTS – FINAL DESIGN
69TH STREET TO 65TH STREET (BASIN F-025)
CP 2020-12

The City of Inver Grove Heights is planning to implement storm water facility improvements along Argenta Trail from 69th Street to the north (towards 65th Street) as part of the turnback of County Road 63 to the City. The proposed project is described in the Argenta Trail Drainage System Improvements Feasibility Study dated May 21, 2021.

The following paragraphs describe the amended scope of work.

1. DATA COLLECTION

Culvert Condition Assessment

A Kimley-Horn completed a site visit and review of all roadway and driveway culverts along the corridor to assess condition and need for replacement or cleaning. Information was documented and incorporated into the final construction documents.

2. PROPERTY ACQUISITION / EASEMENT COORDINATION

Parcel Sketch and Legal Description

The original scope anticipated five (5) properties requiring permanent easement. Kimley-Horn and Pioneer Engineering prepared legal descriptions for the temporary and permanent easements on the initial five properties. Following initial discussions with the Leach property representatives, two additional iterations of easement document were required, one for a pipe system that would minimize tree impacts and one for a pipe system that would align to the property boundary.

Easement Coordination

The original scope anticipated four meetings with the owner at 6760 Arkansas Ave. Two additional meetings, preparation and correspondence were required to facilitate the additional two plan alternatives and corresponding easement area requirements.

3. FINAL DESIGN

Preparation of Construction Plans

The amended scope of work includes the following additional plan production efforts:

- Additional culvert replacement and cleaning notes.
- Two additional pipe and ditch alignment plans for the Leach property.

4. CONSTRUCTION PHASE SERVICES

A. Construction Services

Meetings

We will conduct a pre-construction meeting with the contractor, sub-contractors, City and County staff and private utilities and produce meeting minutes. We will prepare conformed contract documents and coordinate execution of the documents with the contractor and City staff. Our project manager will participate in an estimated 1 hour of construction related meetings/calls per week over the expected 6-week construction period.

Shop Drawing Review and Coordination

We will review shop drawings for the project submitted by the contractor. We will coordinate shop drawing revisions with the contractor and the City.

Construction Coordination

We will provide construction coordination assistance to City staff. We have assumed attendance at weekly construction meetings and an estimated 2 hours of effort per day over the 6-week construction period will be necessary for construction coordination. Upon request by City staff, Kimley-Horn will prepare necessary change orders for the project. We have assumed the preparation of up to one (1) change order may be necessary. We will assist the City with construction closeout documentation and final negotiations with the Contractor following substantial completion of the project. We have assumed up to three (3) hours for the construction closeout process.

B. Construction and As-Built Survey (Pioneer)

Construction Staking. A Kimley-Horn sub-consultant, Pioneer Engineering, will provide construction staking for the project. Pioneer will complete construction limits staking, grading and drainage structures during a one-time site visit.

As-Built Survey

Pioneer will conduct an as-built survey for the project. Pioneer will complete an as-built survey to collect and supply horizontal and vertical data for all drainage structures and graded areas for the record drawings.

EXHIBIT B
ESTIMATED COSTS

INDIVIDUAL PROJECT ORDER (IPO) NO. 38B

ARGENTA TRAIL DRAINAGE IMPROVEMENTS – FINAL DESIGN
69TH STREET TO 65TH STREET (BASIN F-025)
CP 2020-12

Kimley-Horn proposes to perform all services included within this IPO on an hourly (cost plus) basis using our current standard hourly rate schedule. The following is a summary of our estimated costs for the services included as a part of this IPO:

<u>Work Task</u>		<u>Estimated Fee</u>
1	Data Collection (Culvert Assessment)	\$ 800
2	Property Acquisition / Easement Coordination	\$ 3,100
3	Final Design	\$ 5,500
4	Construction Phase Services	\$ 17,100
Subtotal		\$ 26,500
<u>Reimbursable Expenses</u>		<u>\$ 1,200</u>
Total		\$ 27,700

Reimbursable expenses (copy/printing charges, plotting, mileage, delivery charges, faxes, etc.) will be charged as an office expense at 6.0% of the labor fee.

Our total estimated not-to-exceed cost for the scope of services included as a part of this IPO is, therefore, \$27,700 including all labor and reimbursable expenses.

EXHIBIT C
SCHEDULE

INDIVIDUAL PROJECT ORDER (IPO) NO. 38B

ARGENTA TRAIL DRAINAGE IMPROVEMENTS – FINAL DESIGN
69TH STREET TO 65TH STREET (BASIN F-025)
CP 2020-12

The following is a summary of the proposed schedule for the project:

Construction	September-November
Record Drawings	December 2022

Request for Council Action

SUBJECT: **Contract Amendment for Trail Connection Design Services for Vista Pines Park**

MEETING DATE: August 22, 2022

ITEM TYPE: Consent Agenda

CONTACT: Adam Lares, Parks & Recreation Director, 651.450.2587

ACTION REQUESTED

The Council is asked to approve a contract amendment to City Project No. 2015-08 with Kimley-Horn for Civil Trail Connection Design Services for Vista Pines Park. The amendment includes the development of trail alternatives, final design plans, and bidding phase services to implement trail connections between the realigned CSAH 63 (Argenta Trail) and the newly constructed Vista Pines Park.

BACKGROUND

The City recently completed construction on the new Vista Pines Park located west of the new CSAH 63 (Argenta Trail) roadway alignment and East of Argenta Court. The park will serve as an amenity for the recent residential development in the Blackstone developments and Peltier site development currently under construction. Trail and sidewalk infrastructure has been constructed with area developments and is also part of the Dakota County led 70th Street and Argenta Improvement project that is anticipated to be completed in 2023. The County-led roadway project realigns Argenta and also proposes to extend multi-use trails along both sides of the roadway from Amana Trail to the north. Dakota County and the City are also planning to implement a marked pedestrian crossing of Argenta approximately 500-feet south of the 72nd Street intersection.

Vista Pines Park contains multiple paved and natural surfaced trails but does not include a direct trail connection from the park to the proposed multi-use trail along CSAH 63. However, in the overall park design, there was a proposed trail connecting the County trail to the park trail system. The intent was to revisit these trail connections after the completion of the park and in concert with the roadway improvements. This results in the need to investigate the feasibility of connecting a safe, logical trail system along Argenta to the trails within the park at both the north and south ends of the park.

Additionally, along with the Peltier development residents, the Argenta Hills development residents have provided comments regarding their strong desire for safe and direct pedestrian access into the newly constructed park from the east. To that end, City staff have engaged the County about exploring a possible pedestrian bridge over Argenta Trail. This is exploratory at this time, but the County has included a pedestrian bridge feasibility study within their 2023 Draft CIP.

In the immediate term, staff propose utilizing Kimley Horn (KH) for the design of a bituminous path extension from Argenta Trail to Vista Pines Park given their historical knowledge of the 70th St/Argenta Trail project, having worked for both Dakota County and the City performing the final

design of the project. KH is also currently under contract with the City for construction-phase inspection services. KH is best suited to take the current topographic information and proposed alignment information for the County's project and integrate that into a design that will work to connect the proposed trail and crosswalk on Argenta to Vista Pines park in the most efficient manner, while also gaining direct feedback from Dakota County to coordinate the work within the County's right-of-way. By approving this work as an amendment to the current project, there will be no loss in continuity in staff and KH can begin work on this effort immediately.

The following is a summary of the proposed schedule for the project:

Contract Authorization (City Council Meeting)	August 22, 2022
Develop Trail Alignment Alternatives	August 2022 – September 2022
Prepare Engineering Memorandum and Identify Preferred Trail Alternative	September 2022
Prepare 90% Plans and Specifications/ <i>Submit 90% Plans</i>	October 2022 <i>October 31, 2022</i>
Prepare Final Plans and Specifications	November/December 2022
Council Approve Plans and Specs Authorize Advertisement for Bid	December 12, 2022
Bid Opening	January 13, 2023
Council Accepts Bids and Awards Project	January 23, 2023
Construction	Spring 2023

FISCAL IMPACT

Funding for the trail connection design services would come from the City's Park Acquisition and Development Fund (Fund 402). These costs will be tracked separately from the current construction-phase services associated with the 70th Street and Argenta Trail project, to ensure proper documentation and funding appropriation.

The chart below shows the current balance of the Park Acquisition and Development Fund (Fund 402), as well as very high-level estimates of allocations for other park needs and projects on the horizon. In summary, it shows that funds are available to proceed with Vista Pines Trail connection, and to also develop other identified parks in the City's northwest area (NWA), Heritage Village Park Phase 4, and maintain a healthy balance in the Fund for future needs and opportunities.

Project List	Balance	Year to Complete
Fund 402 Balance as of 6/30/22	\$4,761,413	

Remaining Expenses Vista Pines Park	-\$88,780	2022
Vista Pines Trail Connection Design Services - Kimley Horn	-\$54,400	2022/2023
Vista Pines Trail Construction (estimated)	-\$200,000	2022/2023
NWA - Peltier Pocket Park Development - (estimated)	-\$500,000	2022/2023
NWA - Highlands Pocket Park Development - (estimated)	-\$500,000	2022/2023
NWA - WSB Park Design (Highlands & Peltier)	-\$61,300	2022/2023
NWA - Park #4 - (estimated)	-\$1,000,000	TBD
Heritage Village Park – Phase 4 (estimated after DNR Grant)	-\$1,390,000	2023
HVP-Phase 4 5% Construction Contingency, Site Amenities, Construction Administration (estimated)	-\$179,500	2023
Seidles Lake Park Trail Connection (South St. Paul / DNR Grant)	-\$175,000	2023/2024
DEED Reimbursement (Vista Pines)	\$415,000	2022/2023
Total	\$1,027,433	

RECOMMENDATION

Staff recommends Council approve a Contract Amendment for \$54,400 to City Project No. 2015-08 with Kimley-Horn for Civil Trail Connection Design Services for Vista Pines Park.

At its August 10, 2022 meeting, the Park and Recreation Advisory Commission voted unanimously to recommend approval of the contract amendment with Kimley-Horn.

ATTACHMENTS

1. IPO41A_Vista Pines Park Trail Connections_8_4_2022
2. Vista Pines Park Trail Connection Map_with Contours

INDIVIDUAL PROJECT ORDER NUMBER 41A

Describing a specific agreement between Kimley-Horn and Associates, Inc. (the Consultant), and City of Inver Grove Heights (the Client) in accordance with the terms of the Master Agreement for Continuing Professional Services dated April 19, 2011, which is incorporated herein by reference.

Identification of Project: CSAH 26 & CSAH 63 Improvements
City Projects 2015-08, 2016-04 and 2016-05
Vista Pines Park Trail Connections

General Category of Services: Feasibility Phase, Final Design, and Bidding Phase Services

Specific Scope of Basic Services: Feasibility phase to develop trail connection options and cost estimates from CSAH 63 to Vista Pines Park. Final design and bidding phase services for the preferred trail connections. See attached Exhibit A for a more detailed summary of the scope of services.

Additional Services if Required: None identified at this time.

Schedule: See attached Exhibit C.

Deliverables: Feasibility Phase Options and Opinions of Probable Costs
Final Design Plans
Project Manual/Specifications

Method of Compensation To be billed on an hourly (cost plus) basis as detailed in attached Exhibit B.

Special Terms of Compensation: None

Other Special Terms of Individual Project Order: None

ACCEPTED:

CITY OF INVER GROVE HEIGHTS

BY: _____

TITLE: _____

DATE: _____

KIMLEY-HORN AND ASSOCIATES, INC.

BY:  Mark Bishop
BA964A861B39448...

TITLE: Senior Vice President

DATE: 8/4/2022

EXHIBIT A
SCOPE OF SERVICES

INDIVIDUAL PROJECT ORDER (IPO) NO. 41A

CSAH 26 AND CSAH 63 IMPROVEMENTS
CITY PROJECTS CP 2015-08, 2016-04 AND 2016-05
VISTA PINES PARK TRAIL CONNECTIONS

The City of Inver Grove Heights recently completed construction on the new Vista Pines Park located west of the new CSAH 63 (Argenta Trail) roadway alignment and East of Argenta Court. The park will serve as an amenity for the recent residential development in the Blackstone developments and Peltier site development currently under construction. Trail and sidewalk infrastructure has been constructed with the area developments and is also a part of the Dakota County led CSAH 26 (70th Street) and CSAH 63 Improvements project that is anticipated to be completed in 2023. The County led roadway project realigns CSAH 63 and also proposes to extend multi-use trails along both sides of the roadway from Amana Trail to the north. Dakota County and the City are also planning to implement a crossing of CSAH 63 approximately 500-feet south of the 72nd Street intersection.

The Vista Pines Park contains multiple paved and natural surfaced trails but does not include a direct trail connection from the park to the proposed multi-use trail along CSAH 63. The City of Inver Grove Heights desires to investigate the feasibility of connecting the trail system along CSAH 63 to the trails within the park at both the north and south ends of the park. This IPO includes development of concepts and opinions of probable construction cost (OPCC) for trail connections, final design phase services for the preferred trail connection alignments, and bidding phase services as identified below.

1. FEASIBILITY PHASE SERVICES

A. *Project Management*

Kimley-Horn will provide overall project management and utilize internal project management tools to monitor budgets, staff roles, and responsibilities of all team members throughout the project. We will communicate directly with the City's project manager to discuss design decisions and progress throughout the project. We will manage day-to-day activities and milestones with respect to our services for the project. Kimley-Horn will prepare monthly billing invoices and provide a summary of the work tasks completed at the end of each month upon request. We have included up to two (2) virtual meetings with City staff to discuss the alignment alternatives and also discuss comments on the design plans. We have also included up to four (4) hours of coordination time with Dakota County staff to discuss and review a potential new crossing of CSAH 63 at Amana Trail along the north side of the intersection.

B. Basemapping

Kimley-Horn will compile existing topographic and proposed design information, provided by the City from the CSAH 26 and CSAH 63 Improvements project and the Vista Pines Park project to establish an existing basemap. We have assumed no topographic survey will be needed to complete the preliminary and final design phases.

C. Trail Alignment Alternatives

Kimley-Horn will develop up to four (4) trail alignment alternatives to connect the proposed trail along the west side of realigned Argenta Trail to the Vista Pines Park trail system. We have assumed the four trail alignment alternatives generally consist of the options detailed below:

- One (1) trail alignment alternative connecting the intersection of Amana Trail/Argenta Trail to the Vista Pines Park trail system generally running northwest from the north side of the intersection
- Up to three (3) trail alignment alternative connecting the proposed mid-block crossing of Argenta Trail to the Vista Pines Park trail system.
- Each trail alignment alternatives will evaluate the need for for switchbacks and retaining wall/slope stabilization needs to provide an ADA compliant trail profile.

A trail alignment exhibit including vertical profile will be prepared for each trail alignment alternative to assist in determining a preferred trail alignment. These exhibits will be prepared consistent with previous improvements exhibits prepared for the City of Inver Grove Heights at the feasibility study phase of other past projects.

D. Preparation of Opinions of Probable Construction Costs (OPCC)

Kimley-Horn will prepare one feasibility level OPCC for each of the four trail alignment alternatives identified in Task C, relying on information provided by the City and design prepared in Task C. We have assumed up to one (1) round of comments on each OPCC from City staff will be addressed.

2. FINAL DESIGN SERVICES

E. Preparation of Construction Plans

We will prepare final construction plans for the preferred trail alignments. We have assumed the trail connections to the park will not exceed 700 feet in length. The plans will be prepared consistent with previous trail improvement plans completed for the City and assumed to include the plan sheets listed below:

- Cover Sheet
- Typical Sections, Details, and Standard Plates
- Alignment Plan and Tabulation
- Removals, Existing Conditions, and Erosion Control Plan

- Trail Construction and Turf Establishment Site Plan
- Trail Grading Plan

As part of the plan development, we will provide the City with one design submittal at the 90% design level. Comments received at 90% will be included in the final plan submittal. We have assumed all plan submittals will be electronic and provided in PDF format. We have also assumed that the preferred trail alignment will not require retaining walls and no retaining wall plan preparation will be necessary.

F. Final Construction Specifications, Project Manual, Detailed Bid Items, and OPCC

We will prepare a project manual containing the bidding and technical specifications for the project consistent with City standard documents. We will also prepare unit quantities and bid items for the improvements included with the project for the purposes of bidding. The quantities and bid items will be used to develop and OPCC at both the 90% and final completion phases of the project.

3. BIDDING ASSISTANCE

G. Bidding Assistance

We will produce a PDF version of the plans and specifications to be uploaded to QuestCDN. We will field contractor questions related to the project plans and specifications and prepare up to one (1) addendum. We have assumed the bid opening will be held virtually consistent with recent City of Inver Grove Heights projects. We will also prepare a bid tabulation and a bid summary letter following the bid opening.

4. CONSTRUCTION PHASE SERVICES

H. Construction Administration

We will conduct a preconstruction meeting with the contractor, sub-contractor, and City staff and produce meeting minutes. We have assumed the preconstruction meeting will be virtual. We will also prepare conformed contractor documents and coordinate execution of the documents with the contractor and City staff. Weekly construction meetings are assumed to not be necessary for this project and coordination with the Contractor on schedule will occur via email or phone and through on-site coordination with the construction observer.

We will prepare one (1) partial pay request and one (1) final pay request for the project based on the assumed four-week overall construction schedule. Pay requests will incorporate project quantities calculated and measured in Task I below.

I. Construction Observation

We will provide on-site observation during the anticipated four-week construction schedule. We have assumed that a full-time construction observer is not needed for the project and that construction observation will be necessary up to fifteen (15) hours per week. We have assumed

construction observation will be performed during critical construction activities including final trail grading and base installation, trail paving, concrete work, and final turf establishment. During the assumed fifteen-hour construction observation time, the construction observer will perform the following tasks:

- Provide construction observation for the project improvements.
- Generate daily reports
- Photographs before, during, and after construction
- Coordinate materials testing as needed (materials testing service not included)
- Construction observation for evaluation that construction is in conformance with the Plans and City standards/specifications
- Regular coordination with the project contractor and City staff
- Coordination with Kimley-Horn's design engineer on any design related inquiries
- Complete IRA logs for all quantities on a daily basis

Kimley-Horn shall use the care and skill a reasonable practitioner in the profession would use in the same or similar circumstances. Kimley-Horn shall have no responsibility for any of the construction contractor's means, methods, and techniques, equipment choice and usage, sequence, schedule, safety programs, or safety practices, nor shall Kimley-Horn have any authority or responsibility to stop or direct the construction work. Kimley-Horn's visits to the project site will be for the purpose of endeavoring to provide the City a greater degree of confidence that the completed work will generally conform to the construction documents. Kimley-Horn neither guarantees the performance of the construction contractor, nor assumes responsibility for the construction contractor's failure to perform its work in accordance with the contract documents. The construction contractor is solely responsible for constructing the project in conformity to the designs and specifications.

ASSUMPTIONS

We have assumed the following as a part of preparing this IPO:

- No topographic survey or geotechnical investigation will be completed
- No stormwater management or retaining wall design is included in the scope of work
- No review of a potential overpass is included in the scope of work
- No feasibility report or memorandum will be prepared as a part of developing trail alignment alternatives in task 1C.
- No construction staking or materials testing services are included in the construction phase services task.

EXHIBIT B
ESTIMATED COSTS

INDIVIDUAL PROJECT ORDER (IPO) NO. 41A

CSAH 26 AND CSAH 63 IMPROVEMENTS
CITY PROJECTS CP 2015-08, 2016-04 AND 2016-05
VISTA PINES PARK TRAIL CONNECTIONS

Kimley-Horn proposes to perform all services included within this IPO on an hourly (cost plus) basis using our current standard hourly rate schedule. The following is a summary of our estimated costs for the services included as a part of this IPO:

<u>Work Task</u>	<u>Estimated Fee</u>
Feasibility Phase Services	\$ 15,100
Final Design Services	\$ 18,600
Bidding Assistance	\$ 3,400
Construction Phase Services	\$ 14,200
<u>Reimbursable Expenses</u>	<u>\$ 3,100</u>
Total	\$ 54,400

A detailed estimate of cost and estimated hours is included as **Attachment A**. Our total estimated not-to-exceed cost for the scope of services included as a part of this IPO is, therefore, \$54,400 including all labor and reimbursable expenses.

EXHIBIT C
SCHEDULE

INDIVIDUAL PROJECT ORDER (IPO) NO. 41A

CSAH 26 AND CSAH 63 IMPROVEMENTS
CITY PROJECTS CP 2015-08, 2016-04 AND 2016-05
VISTA PINES PARK TRAIL CONNECTIONS

The following is a summary of the proposed schedule for the project:

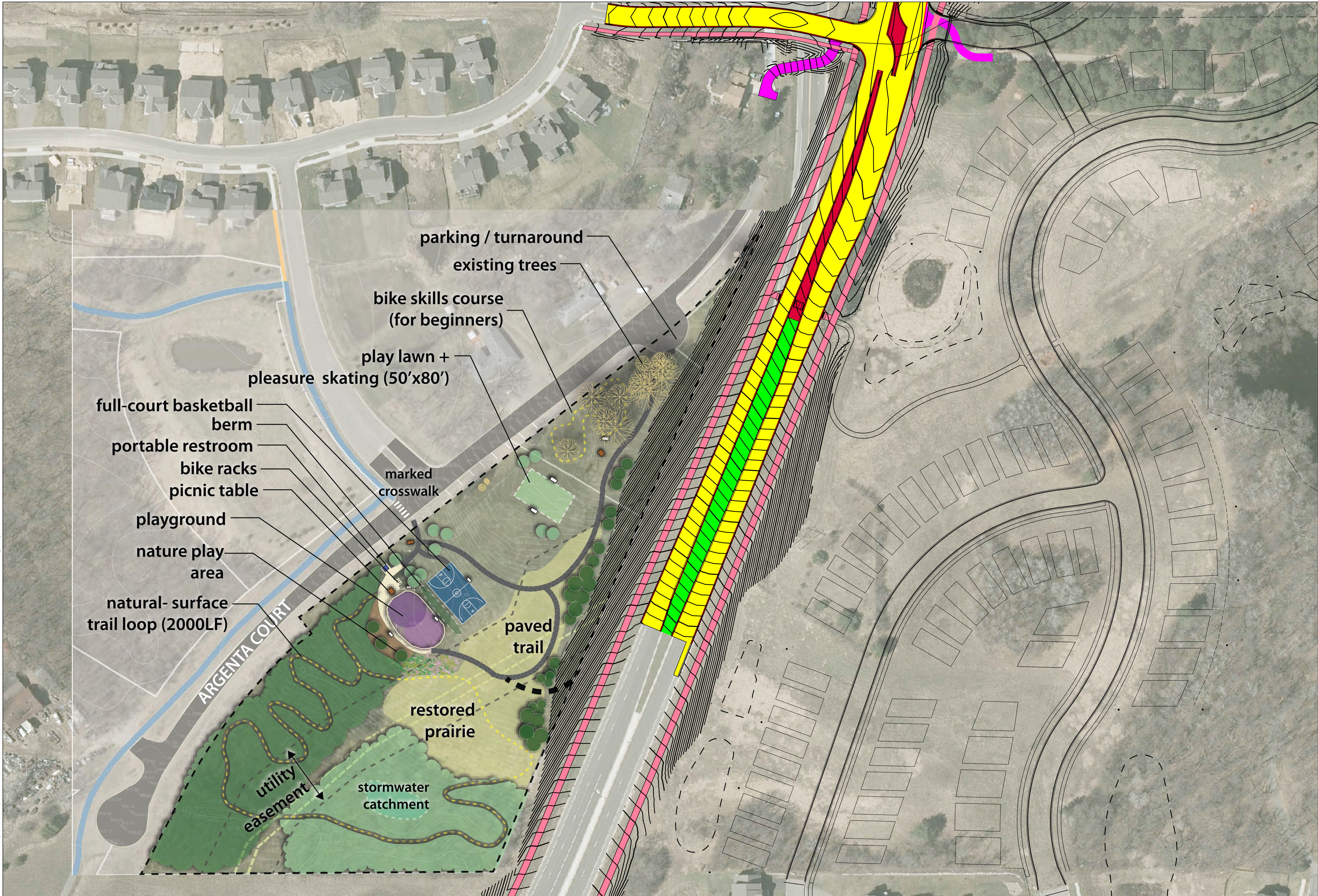
Contract Authorization	August 22, 2022
Develop Trail Alignment Alternatives	August 2022 – September 2022
Prepare Engineering Memorandum and Identify Preferred Trail Alternative	September 2022
Prepare 90% Plans and Specifications <i>Submit 90% Plans</i>	October 2022 <i>October 31, 2022</i>
Prepare Final Plans and Specifications	November/December 2022
Council Approve Plans and Specs <i>Authorize Advertisement for Bid</i>	December 12, 2022
Upload Plans for Bidding	December 16, 2022
Bid Opening	January 13, 2023
Council Accepts Bids and Awards Project	January 23, 2023
Construction	Spring 2023



Attachment A - Detailed Cost Proposal

City of Inver Grove Heights IPO 41A - Vista Pines Park Trail Connections							
Task	Project Manager/Client Manager	CAD Technician	Project Engineer/Construction Observer	Graduate Engineer	Clerical	Total Hours	Total Cost
1. Feasibility Phase Services							
A. Project Management	14				10	24	\$3,700
B. Basemapping		4	2			6	\$900
C. Trail Alignment Alternatives	5	26	6	16		53	\$8,000
D. Opinions of Probable Construction Costs (OPCC)	1		4	12		17	\$2,500
Task 1 Total	20	30	12	28	10	100	\$15,100
2. Final Design Services							
E. Preparation of Construction Plans	5	38	12	50		105	\$15,400
F. Final Construction Specifications, Project Manual, Detailed Bid Items, and OPCC's	2		4	16		22	\$3,200
Task 2 Total	7	38	16	66		127	\$18,600
3. Bidding Assistance							
G. Bidding Assistance	2	4	8	8		22	\$3,400
Task 3 Total	2	4	8	8		22	\$3,400
4. Construction Phase Services							
H. Construction Administration	6		16	6		28	\$4,600
I. Construction Observation			60			60	\$9,600
Task 2 Total	6		76	6		88	\$14,200
Sub-Total	35	72	112	108	10	337	\$51,300
Reimbursable Expenses							\$3,100
TOTAL COST							\$54,400

K:\TWC_Civil\County\DAKOTA\CSAH 26 FINAL DESIGN\CAD\Plan Sheets\Exhibits\Sandell Watermain Extension.dwg July 25, 2022 - 8:53am



Request for Council Action

SUBJECT: **Accept Proposal and Enter Contract with Kimley-Horn & Associates, Inc. for the Southern Sanitary Sewer Study Technical Update**

MEETING DATE: August 22, 2022

ITEM TYPE: Consent Agenda

CONTACT: Brian Connolly, Public Works Director, 651.450.2571

ACTION REQUESTED

The Council is asked to adopt the attached Resolution, accepting the proposal and entering into a contract with Kimley-Horn & Associates, Inc. to provide a technical memorandum associated with reviewing and providing updated capacity analysis related to the Southern Sanitary Sewer system.

BACKGROUND

The Southern Sanitary Sewer System consists of the City's sanitary sewershed located south of approximately US 52 and Inver Grove Trail, serving mainly the industrial areas within the Municipal Urban Service Area (MUSA) boundary on the east and west side of US 52. A study of the sanitary sewer needs of this area was performed between 2003 and 2008 as part of City Project No. 2003-03 (Southern Sanitary Sewer System Improvements), and City Project No. 2005-22 (Cahill South Sanitary Sewer Lift Station Upgrades). The attached figure (Exhibit 2 from the 2003-03 Feasibility Report) highlights the location of the original study area.

As preliminary design work has progressed for the planned reconstruction of 117th Street, the adjacent landfills along 117th Street (Pine Bend Landfill, operated by Republic Services, and the SKB Environmental demolition debris landfill) have expressed an interest in connecting their leachate outfalls directly to city sewer service, to avoid needing to truck their leachate to the Metropolitan Council - Environmental Services wastewater treatment facilities. Preliminary data has indicated that the leachate volumes may be greater than those originally estimated in the earlier City studies. It is critical for the City to understand if there is available capacity in the downstream sanitary sewer system before designing a sanitary sewer extension as part of the 117th Street project effort.

City staff have discussed options for a sewer capacity analysis review with the 117th Street preliminary design consultant (SRF) and with the original Southern Sanitary Sewer Study consultant (Kimley-Horn & Associates, Inc.). Staff feel it is most cost-effective to have an independent technical review performed by Kimley-Horn on the existing Southern Sanitary Sewer System to verify past assumptions regarding sewer flow rates and capacities, review current capacity of the system given known industrial sewer flow rates, and verify what reserve capacity may exist for proposed and future leachate disposal to the city's sanitary sewer system via potential 117th Street service connections. This data can then be utilized to finalize the design of the sewer system as part of the 117th Street project.

FISCAL IMPACT

As the catalyst for this capacity review is directly related to the 117th Street preliminary design effort, staff want to capture the engineering costs for this review as part of that overall project cost. This will ensure that the project costs are included in any future feasibility report and as part of the overall cost sharing calculations (city, county, special assessments, etc.).

The estimated not-to-exceed cost identified by Kimley-Horn via Independent Project Order #43 (attached) is \$12,700. This cost will be paid for through the 117th Street Reconstruction Fund (budget code 436.73.5900.736.30300).

RECOMMENDATION

Staff recommends adoption of the attached Resolution, accepting the proposal and entering into a contact for the Southern Sanitary Sewer Study Technical Update with Kimley-Horn & Associates, Inc.

ATTACHMENTS

1. RESOLUTION
2. Southern Sanitary Sewer Study Area - Map
3. Kimley-Horn Proposal

**CITY OF INVER GROVE HEIGHTS
DAKOTA COUNTY, MINNESOTA**

**RESOLUTION ACCEPTING PROPOSAL AND ENTERING A CONTRACT FOR THE
SOUTHERN SANITARY SEWER SYSTEM TECHNICAL UPDATE**

RESOLUTION NO. _____

WHEREAS, the City Council approved a Joint Powers Agreement with Dakota County on February 8, 2021 with respect to performing preliminary design on 117th Street between Rich Valley Blvd. and US 52; and

WHEREAS, the City of Inver Grove Heights is leading the preliminary design efforts associated with the 117th Street project, and the City Council awarded a contract to SRF Consulting Group, Inc. on April 12, 2021 to perform preliminary design for the 117th Street project; and

WHEREAS, the preliminary design on the 117th Street project is nearing completion, and cost estimates for all street and utility work are being compiled and verified for inclusion in a feasibility report; and

WHEREAS, the landfills owned and operated by Republic Services and SKB Environmental are within the Metropolitan Urban Service Area (MUSA) as defined by the Metropolitan Council, and have indicated a desire to have city sanitary sewer extended to serve their parcels so that they may connect their leachate outfalls to the City of Inver Grove Heights sewer system in lieu of trucking leachate to the Metropolitan Council's wastewater treatment facilities; and

WHEREAS, the preliminary leachate volume data provided by the aforementioned landfills is greater than the leachate volume estimated as part of the Southern Sanitary Sewer System Study generated as parts of City Projects 2003-03 and 2005-22; and

WHEREAS, it is necessary to verify the downstream capacity of existing sanitary sewer systems to handle the proposed increase in sewer flow that may occur as a result of adding the landfill leachate of the aforementioned landfills to the city's sanitary sewer system; and

WHEREAS, Kimley-Horn & Associates, Inc. completed the original Southern Sanitary Sewer System Study efforts, has obtained existing sewer flow data for this sanitary sewershed from the City of Inver Grove Heights, and has the technical staff availability to perform an independent review of the sanitary sewershed flow capacities; and

WHEREAS, Kimley-Horn & Associates, Inc. has submitted a proposal dated August 15, 2022, to conduct a review and provide a technical memorandum updating the data provided for in the Southern Sanitary Sewer System Study for use in determining updated sanitary sewer capacity feasibility associated with the proposed landfill sanitary sewer connections as part of the 117th Street project effort; and

WHEREAS, Kimley-Horn & Associates, Inc.'s proposal is for a not-to-exceed amount of \$12,700 for engineering services related to data collection and preparation of a technical memorandum to update the Southern Sanitary Sewer System Study.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE INVER GROVE HEIGHTS, MINNESOTA THAT:

1. Kimley-Horn & Associates, Inc.'s proposal in the amount of \$12,700 is hereby accepted for the technical data review and preparation of a technical memorandum updating the Southern Sanitary Sewer System Study.
2. Funding shall come from the 117th Street Reconstruction Fund and be tracked as an engineering design expense for the project (436.73.5900.30300).

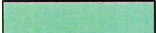
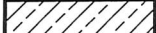
Adopted by the City Council of the City of Inver Grove Heights this 22nd day of August 2022.

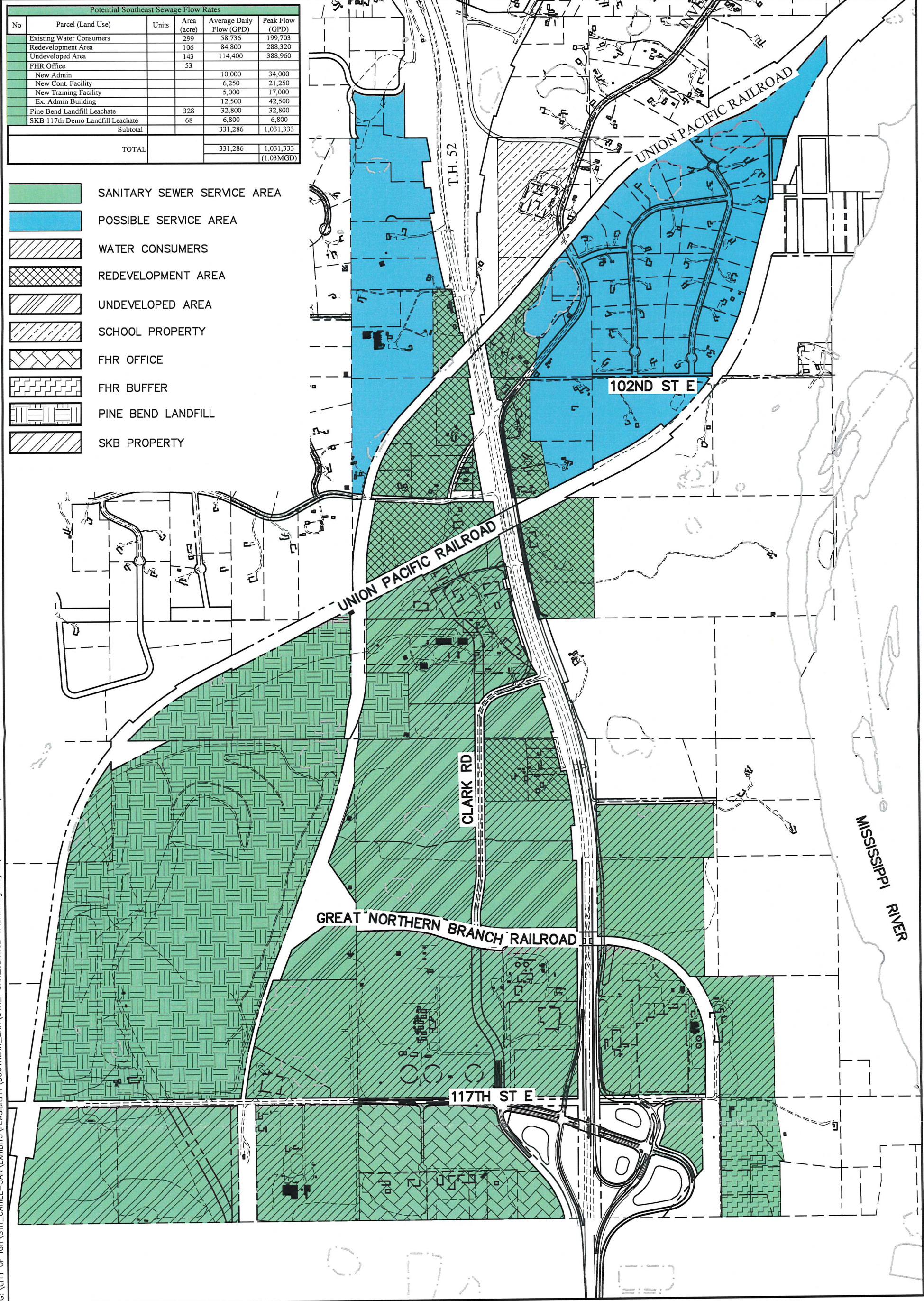
Tom Bartholomew, Mayor

ATTEST:

Rebecca Kiernan, City Clerk

Potential Southeast Sewage Flow Rates					
No	Parcel (Land Use)	Units	Area (acre)	Average Daily Flow (GPD)	Peak Flow (GPD)
	Existing Water Consumers		299	58,736	199,703
	Redevelopment Area		106	84,800	288,320
	Undeveloped Area		143	114,400	388,960
	FHR Office		53		
	New Admin			10,000	34,000
	New Cont. Facility			6,250	21,250
	New Training Facility			5,000	17,000
	Ex. Admin Building			12,500	42,500
	Pine Bend Landfill Leachate	328		32,800	32,800
	SKB 117th Demo Landfill Leachate	68		6,800	6,800
	Subtotal			331,286	1,031,333
	TOTAL			331,286	1,031,333 (1.03MGD)

-  SANITARY SEWER SERVICE AREA
-  POSSIBLE SERVICE AREA
-  WATER CONSUMERS
-  REDEVELOPMENT AREA
-  UNDEVELOPED AREA
-  SCHOOL PROPERTY
-  FHR OFFICE
-  FHR BUFFER
-  PINE BEND LANDFILL
-  SKB PROPERTY



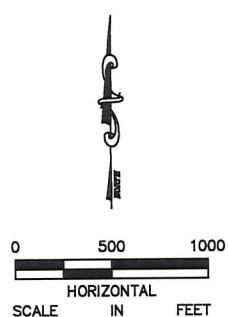
City of
Inver Grove Heights
8150 BARBARA AVENUE
INVER GROVE HEIGHTS, MN 55077-3412



Kimley-Horn
and Associates, Inc.

2550 UNIVERSITY AVE. WEST, SUITE 345N
ST. PAUL, MINNESOTA 55114

TEL. NO. (651) 645-4197
FAX. NO. (651) 645-5116



EXISTING CONDITIONS AND
SANITARY SEWER AREA

SOUTHERN SANITARY SEWER
SYSTEM IMPROVEMENTS

CITY PROJECT 2003-03

EXHIBIT 2
Page 135 of 303

INDIVIDUAL PROJECT ORDER NUMBER 43

Describing a specific agreement between Kimley-Horn and Associates, Inc. (the Consultant), and City of Inver Grove Heights (the Client) in accordance with the terms of the Master Agreement for Continuing Professional Services dated April 19, 2011, which is incorporated herein by reference.

Identification of Project: Southern Sanitary Sewer Study - 2022 Update

General Category of Services: Sewer Capacity Analysis for Potential Landfill Connections along 117th Street

Specific Scope of Basic Services: Preparation of desktop review of southern sanitary sewer system capacity, technical memorandum detailing the findings of the analysis, and identification if improvements are required with the addition of the SKB and Pine Bend Landfill leachate flows. See attached Exhibit A for a more detailed summary of the scope of services.

Additional Services if Required: None identified at this time.

Schedule: See attached Exhibit C.

Deliverables: Technical Memorandum

Method of Compensation: To be billed on an hourly (cost plus) basis as detailed in attached Exhibit B.

Special Terms of Compensation: None

Other Special Terms of Individual Project Order: None

ACCEPTED:

CITY OF INVER GROVE HEIGHTS

BY: _____

TITLE: _____

DATE: _____

KIMLEY-HORN AND ASSOCIATES, INC.

DocuSigned by:
BY: Daniel J. Coyle
75280DC77C57426...

TITLE: Vice President

DATE: 8/15/2022

EXHIBIT A
SCOPE OF SERVICES

INDIVIDUAL PROJECT ORDER (IPO) NO. 43

SOUTHERN SANITARY SEWER STUDY - 2022 UPDATE

We understand the City of Inver Grove Heights will be extending 117th Street near the southern boundary of the City. The SKB and Pine Bend Landfills are along 177th Street and are not currently connected to City sanitary sewer. With the extension of the roadway, a new sanitary sewer system could be installed in conjunction with the road project to connect the 117th Street area to the existing system that terminates west of the Clark Road/117th Street intersection.

This IPO includes reviewing existing flow information available from the City and the landfills along 117th Street (SKB and Pine Bend); evaluating the potential discharge flows from additional connections; and documenting the sanitary system's capacity to accommodate flows from the landfills and future development. A technical memorandum summarizing the findings of the analysis will be provided.

1. SANITARY SEWER SYSTEM ANALYSIS

A. Review Existing Sanitary Flows

Kimley-Horn will review the existing flow information available from the City (last 3 years) against the previous study of flows to the Cahill Lift Station. The study will review pump run times to identify patterns and peak flows to establish the base line for review of proposed sanitary flows. We will complete a desktop review of the sanitary system, conceptually allocating flows to the collection system based on the total actual flow seen at the lift station, and previous flow generation study. We will prepare a GIS map which documents this review. The GIS map will also document which properties have been developed since the original study.

Flow Monitoring of actual field sanitary sewer flows is not included, but can be provided as an additional service. This may be valuable if there are concerns, unexpected information, or to a need to further refine the flow generation,

B. Review Proposed Sanitary Flows

Kimley-Horn will analyze the remaining lift station and gravity system capacity against the anticipated landfill leachate flows and remaining development capacity within the sewershed. It is assumed that SBK and Pine Bend landfills will provide records of leachate hauling or estimates of proposed flows. As part of the analysis, the shallowest sloped pipe for each pipe diameter along the trunk main will be reviewed against the assumed flows to provide a high-level collection system capacity without fully modeling the system. We will prepare a GIS-based exhibit map and flow generation table which summarizes the findings of our review and analysis to be included in the technical memorandum.

2. TECHNICAL MEMORANDUM

A. Prepare Technical Memorandum

We will provide a technical memorandum detailing the results of the work tasks described above. We have assumed the technical memorandum will include a summary of the existing and proposed sanitary system capacities and the impacts from the proposed landfill connections. Exhibits identified in Task 1 will be included with the tech memo

B. City Staff Meetings

We will attend up to one (1) project meeting with City staff to discuss the analysis and findings of the study.

ASSUMPTIONS

We have assumed the following as a part of preparing this IPO:

- No topographic survey or geotechnical investigation will be completed
- The City forcemain ultimately discharges to a Metropolitan Council Environmental Services (MCES) Interceptor. This study assumes the downstream MCES connection has sufficient capacity for the original Cahill Lift Station design point.
- No hydraulic analysis of the lift station will be completed. It is assumed that the original pump design point is the capacity of the lift station.
- It is assumed that the City will provide data including lift station runtimes, pump information, GIS data for sanitary sewer pipe size, material and inverts.

EXHIBIT B
ESTIMATED COSTS

INDIVIDUAL PROJECT ORDER (IPO) NO. 43

SOUTHERN SANITARY SEWER STUDY - 2022 UPDATE

Kimley-Horn proposes to perform all services included within this IPO on an hourly (cost plus) basis using our current standard hourly rate schedule. The following is a summary of our estimated costs for the services included as a part of this IPO:

<u>Work Task</u>	<u>Estimated Fee</u>
1. Sanitary Sewer System Analysis	\$ 9,000
2. Technical Memorandum	\$ 3,000
<u>Reimbursable Expenses</u>	<u>\$ 700</u>
Total	\$ 12,700

Our total estimated not-to-exceed cost for the scope of services included as a part of this IPO is, therefore, \$12,700 including all labor and reimbursable expenses.

EXHIBIT C
SCHEDULE

INDIVIDUAL PROJECT ORDER (IPO) NO. 43

SOUTHERN SANITARY SEWER STUDY - 2022 UPDATE

The following is a summary of the proposed schedule for the project:

Contract Authorization	August 22, 2022
Data Collection and Coordination	August – September 2022
Sanitary Sewer Study & Tech Memo	September 2022
Meeting With City to Review Draft	October 2022
Finalize Tech Memo	Mid-October 2022

Request for Council Action

**SUBJECT: Approval of Final Plans & Specifications and
Authorization to Seek Bids for South Valley Park
Redevelopment Project**

MEETING DATE: August 22, 2022

ITEM TYPE: Consent Agenda

CONTACT: Adam Lares, Parks & Recreation Director, 651.450.2587

ACTION REQUESTED

The Council is asked to approve the final plans and specifications and grant authorization to seek bids for the South Valley Park Redevelopment Project.

BACKGROUND

At its May 9, 2022 meeting, the Council directed staff to proceed with preparation of final plans, specifications, and bid documents for Phase 1 of the redevelopment of South Valley Park. Since that time, final plans, specifications and bid documents have been prepared by HKGI. (See attached plans and specifications). Staff is now seeking authorization to advertise for bids for construction of this project.

Redevelopment of South Valley Park is proposed to proceed in phases, as outlined in the previously adopted park master plan. Phase 1 includes demolition of the existing building, shelter, and playground, construction of a new picnic shelter with restrooms and kitchen, a nature-themed playground, a multi-use performance space, additional parking, ADA-compliant trail system, landscaping, grading, and park amenities. The final plans and specifications attached include an open-air shelter, as was discussed with and approved by the Council as the preferred alternative.

Once Phase 1 is completed, a future Phase 2 is envisioned to include an archery area and trail loop, which includes a natural surface trail loop, boardwalk connections, a retaining wall, interpretive signage, and an archery range. Phase 3 is proposed to include the Western Bluff Area, which includes a community garden, lookout tower, and trail link.

The anticipated schedule for Phase 1 is as follows:

August 22, 2022	City Council approve Plans and Specs and Authorize Bidding
August 24, 2022	Bid Published (Pioneer Press, City Website, & Quest)
September 15, 2022	Review of Bids
September 26, 2022	Recommendation to City Council for Award of Contract
Fall 2022	Demolition, Well Line Work and Removals

Spring 2023	Full Construction Start
October 2023	Final Completion

The City recently approved final plans and specification and advertised for bids for another park project - Heritage Village Park Phase 4. For that project only one bid was received and it exceeded the project estimate. As a result, staff recommended rejecting all bids (of which there was only one) and rebidding the project in early 2023.

There is reason to believe the outcome will be different for this project, primarily due to the project timeline. HVP - Phase 4 was advertised late in the construction season with a timeline to start and finish by the end of 2022. This is likely the reason only one contractor bid on the project. In the case of the South Valley Redevelopment Project, the timeline includes demolition, well line work, and removals to take place this fall with full construction to begin in the Spring of 2023. With this timeline, we anticipate contractors would have ample opportunity to schedule the project into their 2023 construction season and are therefore optimistic that multiple, competitive bids will be received.

FISCAL IMPACT

The specific action of approving the plans and specifications and authorizing staff to seek bids has no financial cost. If a bid is accepted and a construction contract is awarded, funding for the project would come primarily from a DNR grant and the City's Park Capital Replacement (Fund 444). Money in this fund can be used for park maintenance and redevelopment of existing parks. The fund has a current balance of \$2,062,729.

The updated estimated project cost is as follows:

Engineeres Estimate 8/16/2022	
Estimated Construction Cost	\$1,689,627
Mobilization	\$135,170
Special Inspections/SAC Fee	\$17,800
Construction Contingency 25%	\$422,265
Subtotal	\$2,265,004

City Direct Purchases	
Playground Equitment	\$262,725
Site Furnishings	\$110,000
I.T. / Security	\$60,000
Subtotal	\$432,725

Project Totals	
Contruction Total	\$2,265,004

City Direct Purchase	\$432,725
Subtotal	\$2,679,729

As stated earlier, staff have taken steps to reduce costs by being prepared to order materials and equipment directly and completing some work in-house to save on contractor expenses. Current funding sources for this project include the Park Capital Replacement Fund, DNR Grant Funds, Pavement Management Funds, and Sewer and Water Funds. (See revenue chart below).

Park Funding Source	
Park Capital Replacement Fund (Fund 444) as of 6/30/22	\$2,062,729
DNR Grant	\$250,000
Pavement Management Fund	\$285,000
Water & Sewer Funding 2023	\$100,000
Subtotal	\$2,697,729

Originally, in January of 2021, staff had indicated to Council that Park Acquisition and Development Funds (402) would be used to fund a portion of this project. Additionally, there was a brief mention at the Council's February 2022 retreat of possibly using some of the City's American Rescue Plan Act (ARPA) funds toward this project. Currently, neither of these alternative funding sources appear to be necessary. However, the Council may still consider utilizing either of these funding sources if needed, based on whether bids exceed the \$2.7 million cost estimate.

A final decision on the mix of funding sources is not needed until the Council awards a contract for construction.

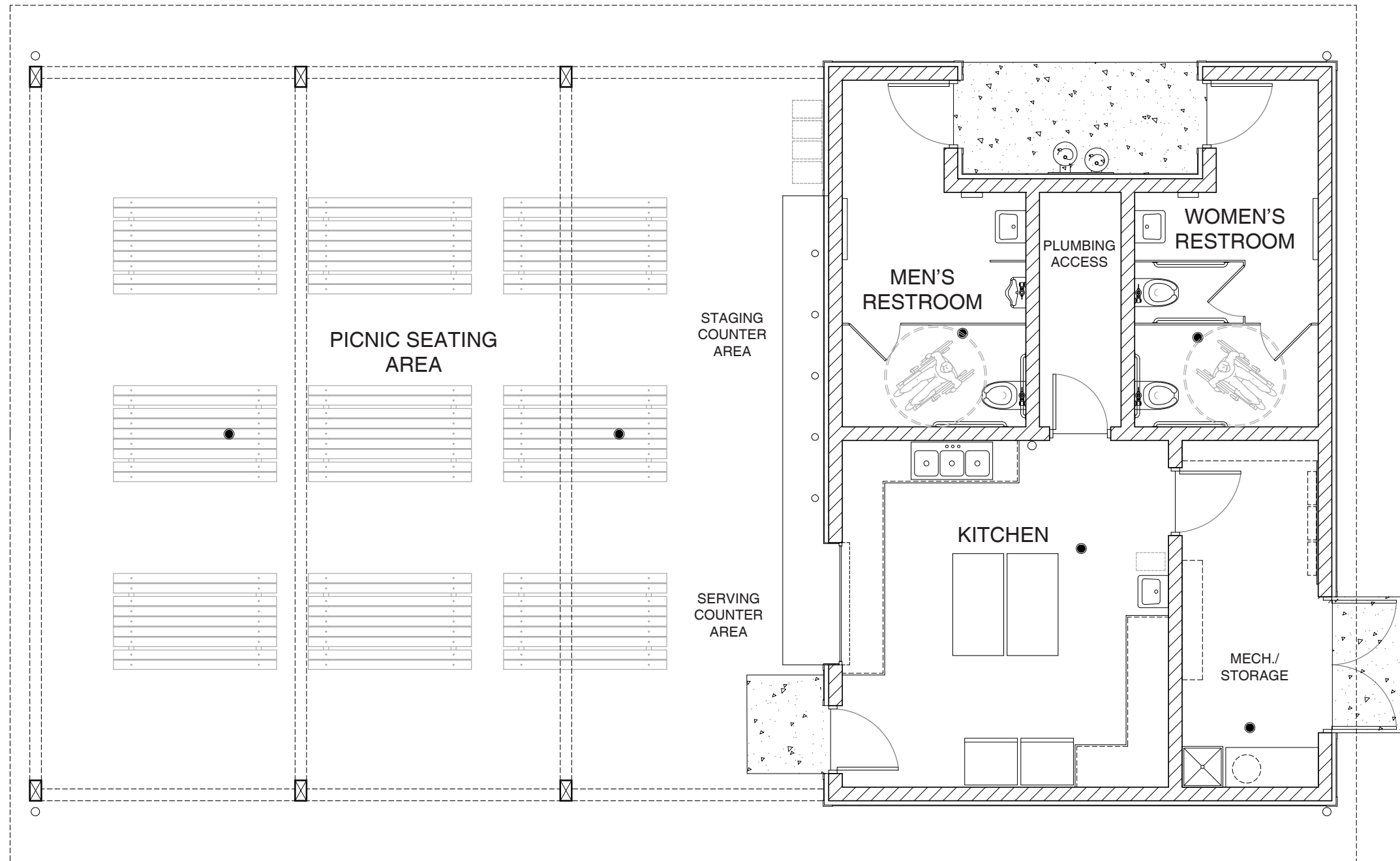
Finally, the DNR grant that Council accepted in March of 2020 requires that the project be completed by December 2023 in order for the City to be reimbursed. In addition, the improvement project must stay in line with the project scope that the City identified within the application, which includes all improvements listed in Phase 1.

RECOMMENDATION

Staff recommends Council approve the final plans and specifications and grant authorization to seek bids for Phase 1 of the South Valley Park Redevelopment Project.

ATTACHMENTS

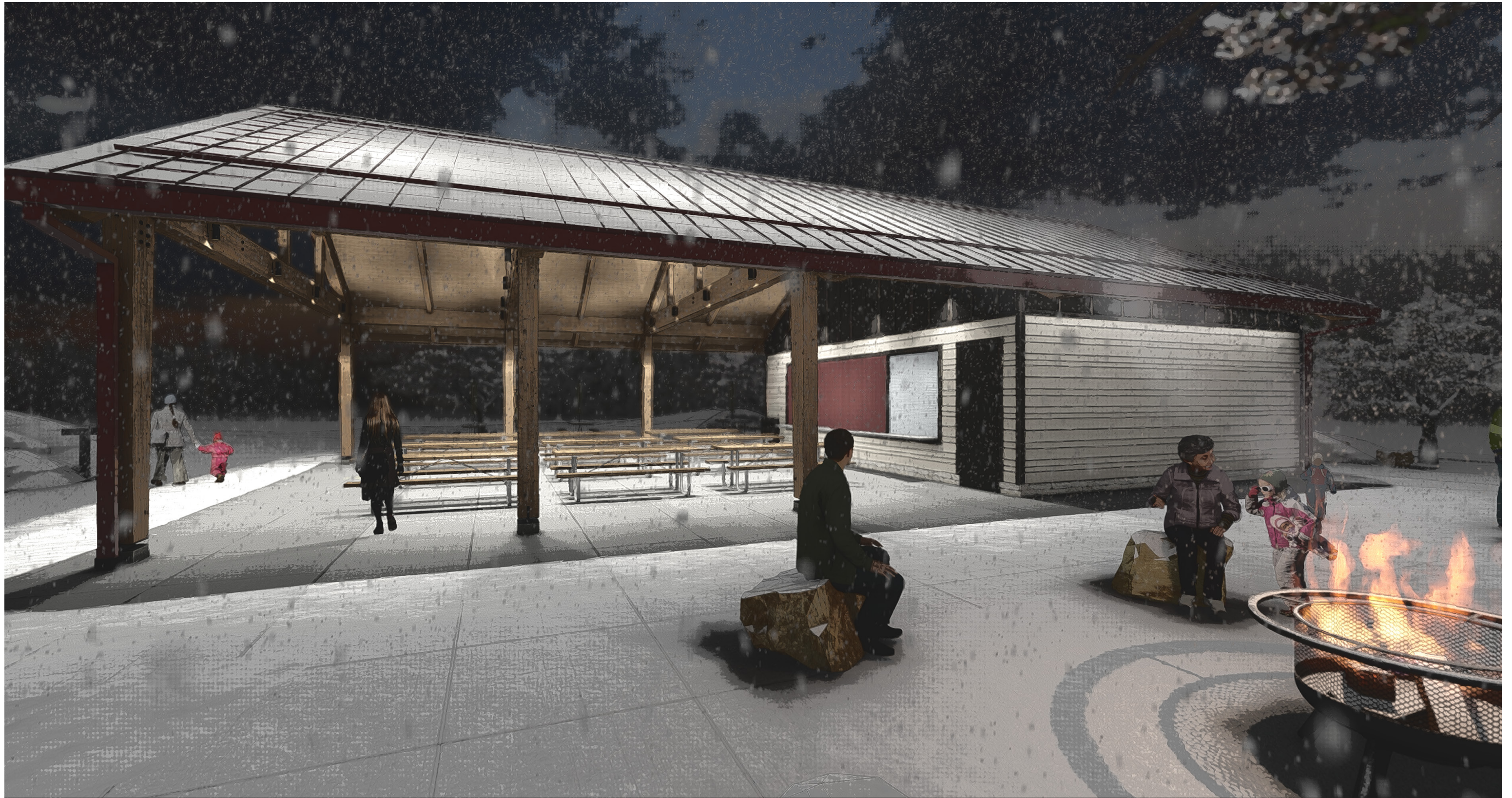
1. Site Design_8.16.2022
2. Shelter Design_8.16.2022
3. Playground Design_8.16.2022
4. SVP_Engineers Estimate_8.16.2022
5. SVP_Line Item Engineers Estimate_8.16.2022
6. Memo - IGH South Valley Park_ Cost Opinion Increase
7. South Valley Park Improvements_Full Plan Set_8.16.2022



OPTION B

(OPEN AIR SHELTER DESIGN) 07.14.2022





OPTION B | (OPEN AIR SHELTER DESIGN) 07.14.2022





OPTION B | (OPEN AIR SHELTER DESIGN) 07.14.2022





OPTION B | (OPEN AIR SHELTER DESIGN) 07.14.2022





ENGINEERS ESTIMATE 8/16/2022		
ITEM	DESCRIPTION	ESTIMATED COST
1	SITE PREP	\$36,000
2	REMOVALS	\$40,000
3	STORMWATER	\$86,110
4	WATER SERVICE	\$6,125
5	WELL LINE	\$122,325
6	SANITARY SEWER	\$51,720
7	SITE ELECTRICAL	\$18,000
8	EARTHWORKS	\$72,000
9	PAVEMENTS	\$316,312
10	MISC PLAYGROUND WORK	\$15,000
11	LANDSCAPING	\$86,035
12	SITE LIGHTING	\$100,000
13	SHELTER	\$740,000
CONTRACTED SUBTOTAL		\$1,689,627
14a	MOBILIZATION (8%)	\$135,170
14b	SPECIAL INSPECTIONS/SAC FEES	\$17,800
14c	CONTINGENCY (25%)	\$422,407
CONTRACTED TOTAL		\$2,265,004

CITY DIRECT PURCHASES		
ITEM	DESCRIPTION	ESTIMATED COST
16	PLAYGROUND EQUIPMENT	\$262,725
17	SITE FURNISHINGS (ALLOWANCE)	\$110,000
18	SECURITY	\$60,000
CITY DIRECT PURCHASE TOTAL		\$432,725

PROJECT TOTALS		
CONTRACTED TOTAL		\$2,265,004
CITY DIRECT PURCHASE TOTAL		\$432,725
PROJECT TOTAL		\$2,697,729

South Valley Park_Inver Grove Heights							
UPDATED 2022 100% COST ESTIMATE - 8.16.2022							
PHASE 1: ACTIVITY AREA							
ITEM	ITEM DESCRIPTIONS	EST QTY	UNIT	UNIT COST	TOTAL		NOTES
1. SITE PREP							
1.01	EROSION CONTROL - SILT FENCE	1,250	LF	\$ 4	\$ 5,000		
1.01	EROSION CONTROL - INLETS	12	EA	\$ 100	\$ 1,200		VERIFY IF THIS IS SHOWN IN PLAN SET
1.02	TREE PROTECTION FENCING	1	LS	\$ 2,000	\$ 2,000		
1.03	SURVEY AND STAKING	1	LS	\$ 12,000	\$ 12,000		
1.04	CONSTRUCTION FENCING	1,600	LF	\$ 8	\$ 12,800		VERIFY LENGTH: FULL SITE TO BE CLOSED TO PUBLIC DURING CONSTRUCTION
1.05	CONSTRUCTION ENTRANCES	1	EA	\$ 3,000	\$ 3,000		
	Subtotal				\$ 36,000		
2. REMOVALS							
2.01	REMOVE SHELTER AND WARMING HUT	1	LS	\$ 30,000	\$ 30,000		INCLUDES DECOMMISSION OF SEPTIC FIELD, DEMO OF WARMING HUT AND EXISTING SHELTER; CONTRACTOR TO VERIFY PROCEDURE
2.02	REMOVE BALL FIELD AGLINE	296	CY	\$ 20	\$ -		IGH STAFF TO REMOVE- ASSUMES 8" DEPTH- COULD BE USED FOR ON SITE BASE MATERIAL
2.03	REMOVE TREES	4	EA	\$ 800			IGH STAFF TO REMOVE, VERIFY FINAL COUNT WITH SURVEY, CHECK WATER LINE, PARKING LOT AREAS
2.04	MISC REMOVAL FOR PARKING LOT, TRAIL, AND PARK IMPROVEMENTS	1	LS	\$ 10,000	\$ 10,000		CURB REMOVAL? PAVEMENT REMOVAL? CHAINLINK? IGH STAFF TO REMOVE PLAYGROUND
	Subtotal				\$ 40,000		
3. STORMWATER							
3.01	OUTLET CONTROL STRUCTURE	1	EA	\$10,000.00	\$ 10,000		Confirm final costs with DTE
3.02	DRAINAGE STRUCTURE	8	EA	\$5,000.00	\$ 40,000		Confirm final costs with DTE
3.03	12" STORM PIPE	514	LF	\$40.00	\$ 20,560		Confirm final costs with DTE
3.04	15" STORM PIPE	141	LF	\$50.00	\$ 7,050		Confirm final costs with DTE
3.05	FLARED END SECTION	4	EA	\$1,500.00	\$ 6,000		Confirm final costs with DTE
3.06	CONNECT TO EXISTING STORM	1	EA	\$2,500.00	\$ 2,500		Confirm final costs with DTE
3.07	SAND FILL & DRAIN TILE	0	CY	\$20.00	\$ -		Confirm final costs with DTE
	Subtotal				\$ 86,110		
4. WATER SERVICE							
4.01	CONNECT TO EXISTING WATERMAIN	4	EA	\$500.00	\$ 2,000		
4.02	1" CORPORATION STOP	1	EA	\$250.00	\$ 250		
4.03	1" CURB STOP AND BOX	1	EA	\$250.00	\$ 250		
4.04	1" TYPE PE PIPE	145	LF	\$25.00	\$ 3,625		
	Subtotal				\$ 6,125		
5. WELL LINE							
5.01	12" DIP WATERMAIN	300	LF	\$125.00	\$ 37,500		WATERMAIN RELOCATION: INCLUDES EXCAVATION; confirm final costs with DTE
5.02	16" DIP WATERMAIN	258	LF	\$150.00	\$ 38,700		WATERMAIN RELOCATION: INCLUDES EXCAVATION; confirm final costs with DTE
5.03	12" GATE VALVE	1	EA	\$6,000.00	\$ 6,000		WATERMAIN RELOCATION: INCLUDES EXCAVATION; confirm final costs with DTE
5.04	16" GATE VALVE	1	EA	\$10,000.00	\$ 10,000		WATERMAIN RELOCATION: INCLUDES EXCAVATION; confirm final costs with DTE
5.05	DUCTILE IRON FITTINGS	3000	LB	\$8.00	\$ 24,000		WATERMAIN RELOCATION: INCLUDES EXCAVATION; confirm final costs with DTE
	Subtotal				\$ 122,925		
6. SANITARY SEWER							
6.01	4" PVC PIPE SEWER	130	LF	\$40.00	\$ 5,200		
6.02	E-ONE GRINDER STATION	1	EA	\$25,000.00	\$ 25,000		
6.03	DIRECTIONALLY BORED 1.5" FORCEMAIN	488	LF	\$40.00	\$ 19,520		
6.04	CONNECT TO EXISTING SANITARY	1	EA	\$2,000.00	\$ 2,000		
	Subtotal				\$ 51,720		
7. SITE ELECTRICAL/MISC							
7.01	ELECTRICAL CONNECTION TO SHELTER, PERFORMANCE AREA	0	LF	\$ 50	\$ -		INCLUDED IN ARCHITECTURE COST ESTIMATE
7.02	SITE OUTLETS - HOLIDAY LIGHTING, 120V PERFORMANCE	9	EA	\$ 2,000	\$ 18,000		VERIFY UNIT COSTS / VERIFY QUANTITY WITH STAFF
	Subtotal				\$ 18,000		
8. EARTHWORKS							
8.01	COMMON EXCAVATION	4,000	CY	\$ 18	\$ 72,000		INCLUDES STRIPPING, SHAPING, PLACING FIELD TOPSOIL, INCLUDES BUILDING EXCAVATION. Need to verify if soil corrections are needed at shelter
	Subtotal				\$ 72,000		
9. PAVEMENTS							
9.01	BITUMINOUS PARKING LOT	1,360	SY	\$ 30	\$ 40,800		INCLUDES AGGREGATE, SURFACE FOR ADDITION AREA
9.02	MILL AND OVERLAY (2")	2050	SY	\$ 20	\$ 41,000		DRIVEWAY (ADD FROM 60% SET)
9.03	CONCRETE CURB & GUTTER DESIGN B612	667	LF	\$ 16	\$ 10,672		
9.04	STRIPING - PARKING LOT	1	LS	\$ 5,000	\$ 5,000		INCLUDES RESTRIPING OF ENTIRE LOT
9.05	TRAIL CROSSING - STRIPING	1	LS	\$ 3,000	\$ 3,000		250 SF WITH (2) PED RAMPS
9.06	BITUMINOUS TRAIL	460	SY	\$ 20	\$ 9,200		10' WIDE ADA TRAIL ALONG PARKING LOT TO EXISTING PARK TRAIL, INCLUDES AGGREGATE BASE
9.07	CONCRETE PAVEMENT	19,780	SF	\$ 8	\$ 158,240		5" DEPTH, INCLUDES AGGREGATE BASE, includes concrete under shelter and 15% overage
9.08	TRUNCATED DOMES	28	SF	\$ 100	\$ 2,800		VERIFY QTY WITH ENGINEER
9.09	SPECIAL CONCRETE FINISH APPLIED	2,300	SF	\$ 12	\$ 27,600		priced as an "in addition to" item for specialty concrete
9.10	CONCRETE STAIR	96	LF	\$ 150	\$ 14,400		
9.11	STAIR HAND RAIL	36	LF	\$ 100	\$ 3,600		SIMPLE ROUND TUBE STEEL HAND RAIL
	Subtotal				\$ 316,312		
10. OTHER PLAYGROUND WORK BY CONTRACTOR							
10.01	THICKENED CONCRETE EDGE AT PERIMETER WALK	80	LF	\$ 25	\$ 2,000		VERIFY IF NEEDED WITH CURRENT DESIGN
10.02	PLAY CONTAINER EDGER	250	LF	\$ 40	\$ 10,000		
10.03	CONC RAMP INTO PLAY CONTAINER	2	LS	\$ 1,500	\$ 3,000		
	Subtotal				\$ 15,000		
11. LANDSCAPING							
11.01	TURF SEED (IRRIGATED AREA)	650	SY	\$ 2.0	\$ 1,300		POLLINATOR LAWN MIX: WHITE CLOVER - 5833 sf
11.02	SITE RESTORATION (NON IRRIGATED AREAS)	5,980	SY	\$ 1.5	\$ 8,970		POLLINATOR LAWN MIX: WHITE CLOVER - 47,500sf / 6300sf
11.03	PERENNIAL	309	EA	\$ 45	\$ 13,905		1 GAL CONT. (INCL MULCH, WARRANTY)
11.04	DECIDUOUS SHRUB	65	EA	\$ 90	\$ 5,850		5 GAL CONT. (INCL MULCH, WARRANTY)
11.05	ORNAMENTAL TREE	3	EA	\$ 500	\$ 1,500		1.5-2" CAL/6' HEIGHT
11.06	DECIDUOUS SHADE TREE	18	EA	\$ 600	\$ 10,800		2.5" CAL
11.07	BOULDERS	42	EA	\$ 400	\$ 16,800		LIMESTONE 2" TALL, FLAT TOP
11.08	SOIL AMENDMENT (IRRIGATED PLANT BEDS)	85	CY	\$ 45	\$ 3,825		6" COMPOST FOR AMENDING IRRIGATED PLANT BEDS; VERIFY SOIL -4580sf
11.09	SOIL AMENDMENT (IRRIGATED TURF AREAS)	36	CY	\$ 45	\$ 1,620		2" COMPOST FOR AMENDING IRRIGATED TURF AREAS; VERIFY SOIL
11.10	EROSION CONTROL BLANKET	4,202	SY	\$ 2.5	\$ 10,505		SEE CIVIL PLANS
11.11	STEEL EDGING	16	LF	\$ 10	\$ 160		
11.12	IRRIGATION	10,800	SF	\$ 1.00	\$ 10,800		ASSUMES CONNECTION TO EXISTING WATER SERVICE, IRRIGATED AREA WITHIN CORE AREA BOUND BY TRAIL/SIDEWALK
					\$ 86,035		
12. SITE LIGHTING							
12.01	DECORATIVE 14FT AREA LIGHTS WITH POLES	10	EA	\$ 5,000	\$ 50,000		fixture TBD
12.02	TALL 30 FT ROADWAY LIGHTS WITH POLES	4	EA	\$ 7,500	\$ 30,000		fixture and height TBD
12.03	FLOOD LIGHTS WITH POLES	4	EA	\$ 5,000	\$ 20,000		4 LIGHTS ON 3 POLES
					\$ 100,000		
	Subtotal						
13. SHELTER							
13.01	BUILDING PER FINAL CONCEPT DESIGN - See Architecture Estimate Tab for Details	1	LS	\$ 740,000	\$ 740,000		Per 70% Estimate provided by Dertel. Includes 35K allowance for Fiber/Security upgrades
	Subtotal				\$ 740,000		
14. MOBILIZATION / CONTINGENCIES							
	Construction Subtotal			\$	1,689,627		
14.01	Mobilization (8%)	0.08		\$	135,170		MOBILIZATION, PERMITTING, ETC.
14.02	SPECIAL INSPECTIONS/SAC FEES			17800	\$ 17,800		Per final cost estimate for shelter
14.03	Contingency (25%)	0.25		\$	422,407		UNFORSEEN COSTS / BIDDING ENVIRONMENT COST INCREASES: this has been raised from 10/15% from previous estimates.
							Includes 25% contingency
16. CITY DIRECT PURCHASE: PLAYGROUND							
16.01	PLAYGROUND EQUIPMENT AND INSTALL	1	LS	\$ 226,575	\$ 262,725		PER FLAGSHIP/LSI July 14 2022 INCLUDES DELIVERY, INSTALLATION, FOOTINGS, MOBILIZATION, DELIVERY, DUMPSTER, GEOTEXTILE FABRIC, AGGREGATE
	Subtotal				\$ 262,725		
17. CITY DIRECT PURCHASE: SITE FURNISHINGS (INSTALLED BY CITY STAFF, ALL SURFACE MOUNT OR DB)							
	SVP Site Furnishings 7/12/2022	Qty					
17.01	BENCHES	10	EA	\$ 2,750	\$ 27,500		Dumor
17.02	PICNIC TABLES	14	EA	\$ 3,300	\$ 46,200		Dumor
17.03	UMBRELLA	5	EA	\$ 2,200	\$ 11,000		STONERIDGE; verify with picnic table selection
17.04	TRASH/RECYCLING RECEPTACLES	6	EA	\$ 2,200	\$ 13,200		Dumor
17.05	BIKE RACKS	1	EA	\$ 1,500	\$ 1,500		Dumor
17.06	ONE SIDED KIOSK	1	EA	\$ 3,300	\$ 3,300		OFF SHELF ITEM, INCL FOOTING (verify option to surface mount) DOES NOT INCLUDE COST OF ARTWORK

South Valley Park_Inver Grove Heights						
UPDATED 2022 100% COST ESTIMATE - 8.16.2022						
PHASE 1: ACTIVITY AREA						
ITEM	ITEM DESCRIPTIONS	EST QTY	UNIT	UNIT COST	TOTAL	NOTES
17.07	OUTDOOR GRILL	2	EA	\$ 1,350	\$ 2,700	Need to verify if single or double
17.08	FIRE BOWL	1	EA	\$ 2,200	\$ 2,200	Fire Pit Art w/ cover
17.09	ADIRONDACK CHAIRS	0	EA	\$ 600	\$ -	Not included as of 7/12
	Subtotal				\$ 110,000	Estimates (not based on bids)
18. CITY DIRECT PURCHASE: FIBER OPTIC/SECURITY						
18.01	FIBER OPTIC CABLE CONNECTION (TO SHELTER)					Not part of project scope. To be done by others in CIP
18.02	DOOR/SECURITY/CAMERAS/WIFI/CABLING	1	LS	\$60,000	\$ 60,000	Need to add items sent from Adam 8/15: Card readers and Cameras \$34,713; Switch & Cabinet \$7,000; Cabling \$12,000; WIFI \$2,000; confirm if there are further items to account for. \$55,713 total
					\$ 60,000	
				CITY DIRECT PURCHASE TOTAL	\$ 432,725	
				PHASE 1 CONTRACTOR BID TOTAL	\$ 2,265,004	
				PHASE 1 TOTAL PROJECT COST	\$ 2,697,729	target: 2.5M

Inver Grove Heights – South Valley Park Shelter

Date July 18, 2022

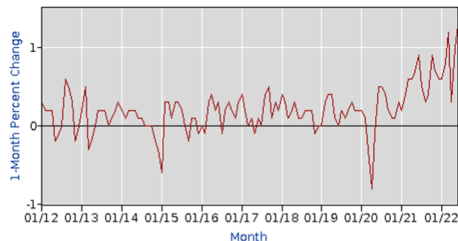
OA Project No. 21-07

RE: Cost Opinion Increase – Open Air Park Shelter Design

Memo / Agenda

At the end of February of this year our preliminary cost opinion for the revised open air shelter design of South Valley Park was \$627,425.00. Since then we have put together at 65% milestone cost opinion of \$737,290.00. An increase of \$109,865.00 for the open air shelter design.

We have based the most recent figures on market data we are hearing from contractors, recent projects that have come back from bidding and the associated unit costs, as well as current inflation trends. The consumer price index has seen an average increase of nearly 1% each month since the beginning of the year and we are seeing those percentages even higher within the construction industry. Mechanical and electrical system costs in particular have increased significantly since the beginning of the year.



Download: [xlsx](#)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	HALF1	HALF2
2012	0.3	0.2	0.2	0.2	-0.2	-0.1	0.0	0.6	0.5	0.3	-0.2	0.0		
2013	0.2	0.5	-0.3	-0.2	0.0	0.2	0.2	0.2	0.0	0.1	0.2	0.3		
2014	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	-0.2	-0.3		
2015	-0.6	0.3	0.3	0.1	0.3	0.3	0.2	0.0	-0.2	0.1	0.1	-0.1		
2016	0.0	-0.1	0.3	0.4	0.2	0.3	-0.1	0.2	0.3	0.2	0.1	0.3		
2017	0.4	0.2	0.0	0.1	-0.1	0.1	0.0	0.4	0.5	0.1	0.3	0.2		
2018	0.4	0.3	0.1	0.2	0.3	0.1	0.1	0.2	0.2	0.2	-0.1	0.0		
2019	0.0	0.3	0.4	0.4	0.1	0.0	0.2	0.1	0.2	0.3	0.2	0.2		
2020	0.2	0.1	-0.3	-0.8	-0.1	0.5	0.5	0.4	0.2	0.1	0.1	0.3		
2021	0.2	0.4	0.6	0.6	0.7	0.9	0.5	0.3	0.4	0.9	0.7	0.6		
2022	0.6	0.8	1.2	0.3	1.0	1.3								

Source (https://data.bls.gov/timeseries/CUSR0000SA0&output_view=pct_1mth)

While we have started to see some prices come back down, notably steel, the majority of construction materials are still significantly elevated in cost from last year.

Thank you for your time,

Daniel England

SOUTH VALLEY
PARK PHASE 1
IMPROVEMENTS

SHEET INDEX

T1.1 TITLE SHEET

SITE	
C1.0	EXISTING CONDITIONS
C2.0	REMOVAL PLANS
C3.0	CIVIL SITE PLAN
C4.0	SITE GRADING PLAN
C5.0	STORM SEWER SYSTEM PLAN & PROFILE
C5.1	WATER DISTRIBUTION PLAN & PROFILE
C5.2	SANITARY FORCEMAN PLAN & PROFILE
C6.0	EROSION CONTROL PLAN
C7.0	CIVIL DETAILS
C7.1	CIVIL DETAILS
C7.2	CIVIL DETAILS
C7.3	CIVIL DETAILS
C7.4	EROSION CONTROL DETAILS

L1.1	LANDSCAPE PLAN
L2.1	PLANTING PLAN
L3.1	SITE FEATURES DETAILS
L3.2	SITE FEATURES DETAILS
L3.3	SITE FEATURES DETAILS
L3.4	SITE FEATURES DETAILS

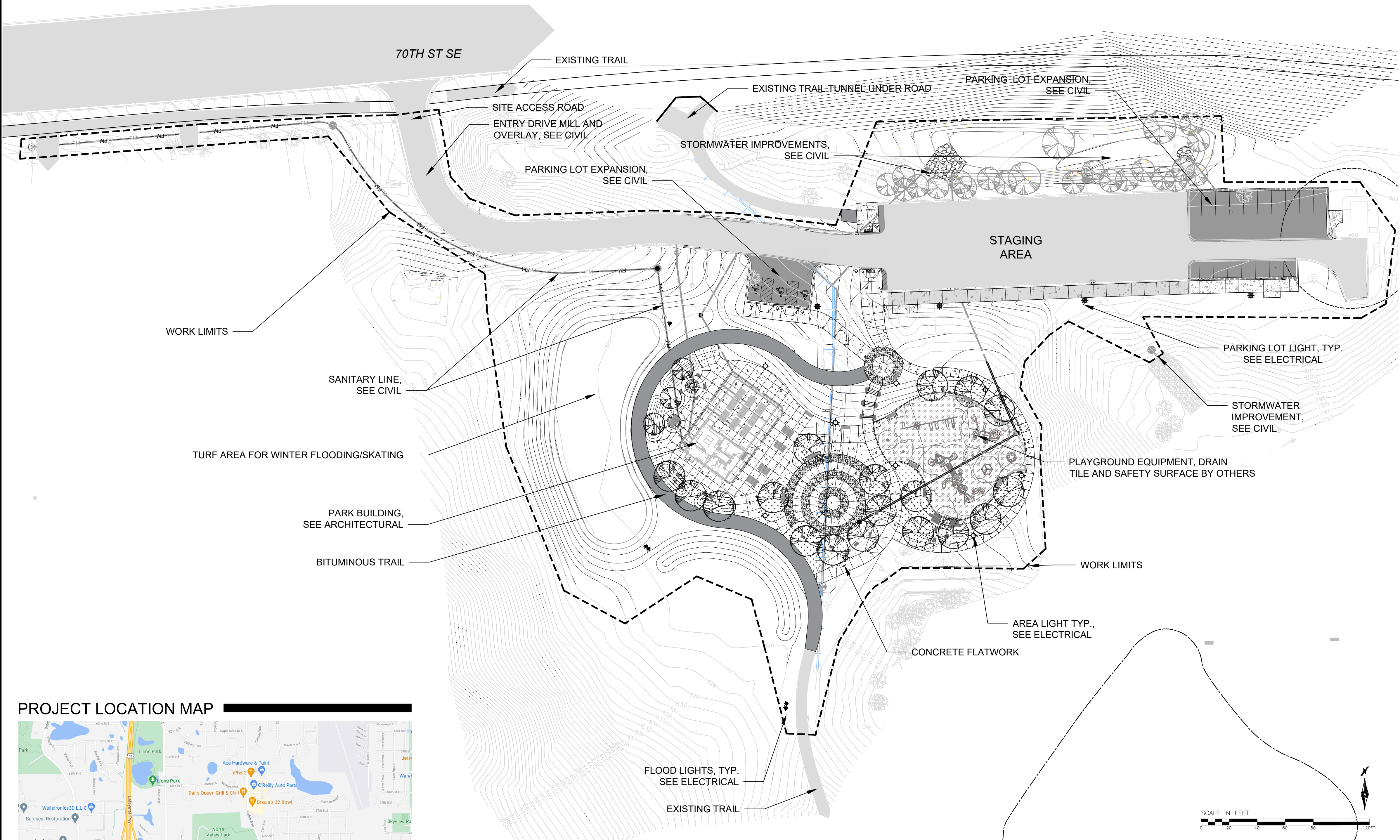
GENERAL (BUILDING)	
G100	TITLE AND INDEX PAGE
G101	CODE PLAN
G102	GENERAL INFORMATION

ARCHITECTURAL	
A101	FLOOR PLAN
A102	ROOF PLAN
A201	REFLECTED CEILING PLAN
A301	EXTERIOR ELEVATIONS
A302	EXTERIOR ELEVATIONS
A401	SHELTER SECTIONS
A402	WALL SECTIONS
A403	WALL SECTIONS
A601	SCHEDULES
A701	INTERIOR ELEVATIONS

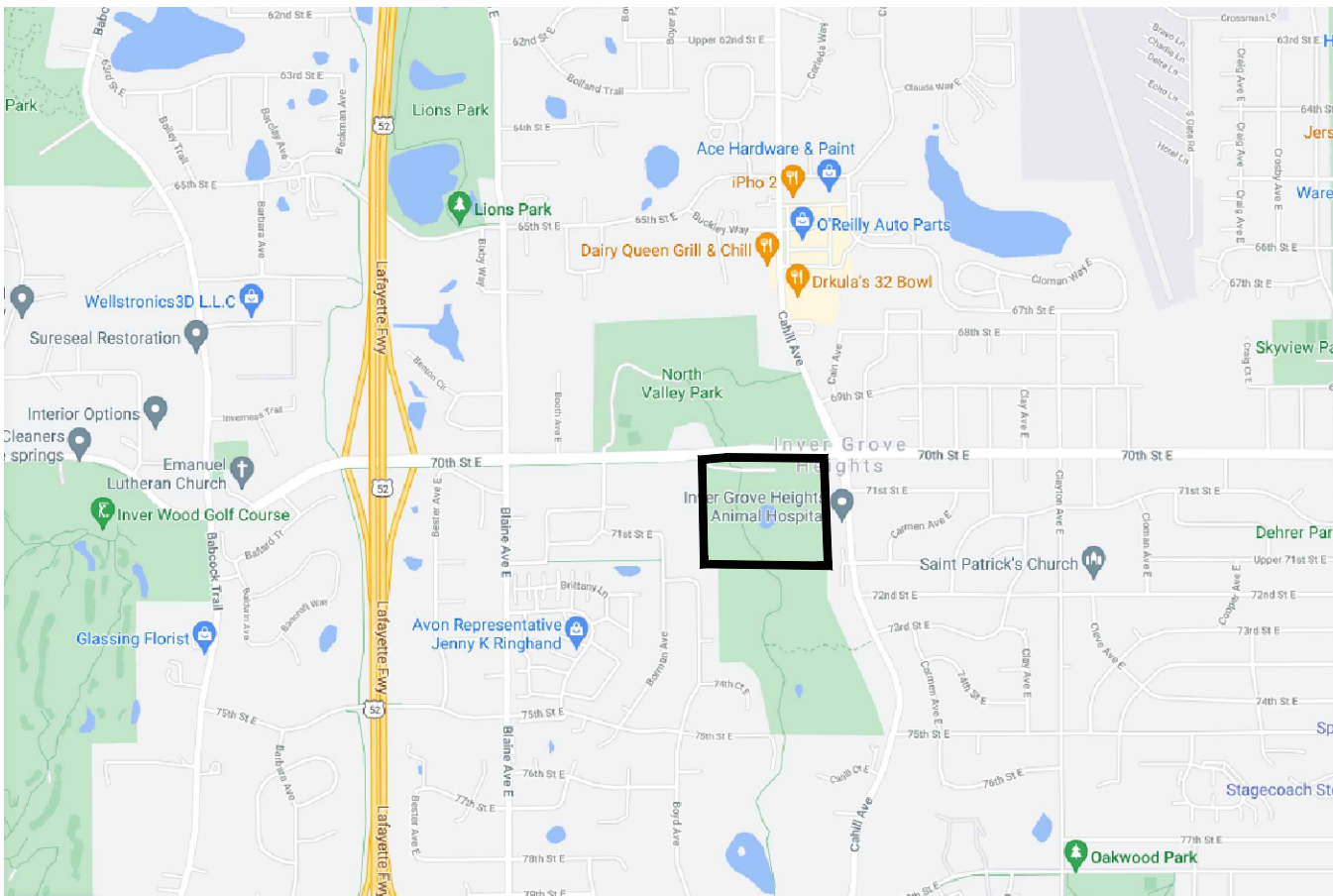
STRUCTURAL	
S000	GENERAL STRUCTURAL NOTES
S100	FOUNDATION PLAN
S101	CEILING FRAMING PLAN
S102	ROOF FRAMING PLAN
S200	ELEVATIONS
S201	ELEVATIONS AND DETAILS
S300	FOUNDATION DETAILS

MECHANICAL	
M001	MECHANICAL TITLE SHEET
M101	UNDERGROUND PLUMBING PLAN
M102	PLUMBING PLAN
M201	HVAC PLAN
M301	HVAC PIPING PLAN
M400	MECHANICAL SCHEDULE AND DETAILS

ELECTRICAL	
E000	ELECTRICAL TITLE SHEET
E001	ELECTRICAL SITE PLAN
E101	ELECTRICAL LIGHTING PLAN
E201	ELECTRICAL POWER AND SYSTEMS PLAN
E300	ELECTRICAL DETAILS
E400	ELECTRICAL SCHEDULES



PROJECT LOCATION MAP



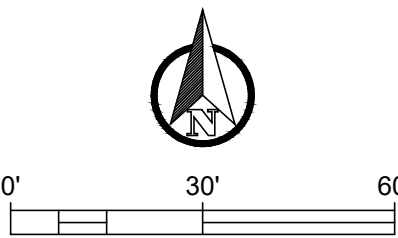
Date 8.12.22	Revision BID SET	By	HKGI Project No.: 021-002	I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly licensed Landscape Architect under the laws of the State of Minnesota. Paul Paige, LA 23594 Registration No. 08.12.2022 Date	Consultant: Landscape Architecture / Planning / Urban Design Minneapolis, Minnesota www.hkgi.com	Owner: INVER GROVE HEIGHTS, MINNESOTA CITY PROJ. # 2114	Project: SOUTH VALLEY PARK PHASE 1 IMPROVEMENTS INVER GROVE HEIGHTS, MINNESOTA Sheet Title: TITLE SHEET	SHEET T1.1
-----------------	---------------------	----	---------------------------	---	---	---	---	-------------------



- NOTES:**
- EXISTING CONDITIONS & TOPOGRAPHIC INFORMATION PROVIDED BY:
DESIGN TREE ENGINEERING & LAND SURVEYING
120 17TH AVENUE W
ALEXANDRIA, MN 56308
 - THE LOCATIONS AND ELEVATIONS OF THE EXISTING UTILITIES SHOWN HEREIN ARE APPROXIMATE. THEY HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND/OR RECORDS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING LOCATION AND ELEVATION TO ENSURE THAT ANY EXISTING UTILITIES (SHOWN OR NOT SHOWN) ARE NOT DAMAGED DURING CONSTRUCTION.
 - GOPHER STATE ONE CALL DAMAGE PREVENTION SYSTEM FOR BURIED UTILITIES. 1-800-252-1166.

LEGEND

- HYDRANT
- SANITARY MANHOLE
- GATE VALVE
- POWER POLE
- LIGHT POLE
- CATCH BASIN
- SIGN
- DECIDUOUS TREE
- CONIFEROUS TREE
- SHRUB
- PEDESTAL
- GUY WIRE
- BOLLARD
- POWER BOX
- ELECTRIC METER
- MONITORING WELL
- SANITARY SEWER CLEANOUT
- WOOD FENCE
- CHAINLINK FENCE
- WIRE FENCE
- STORM SEWER LINE
- SANITARY SEWER LINE
- WATERMAIN
- OVERHEAD ELECTRIC
- UNDERGROUND TELEPHONE
- UNDERGROUND FIBER
- UNDERGROUND ELECTRIC
- UNDERGROUND GAS LINE
- CONCRETE PAVEMENT
- BITUMINOUS PAVEMENT
- AGGREGATE SURFACING
- LANDSCAPING
- BUILDING



Date	Revision	By	HKGI Project No.: 021-002	I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly licensed Engineer under the laws of the State of Minnesota.  Jeremy E. Anderson, PE 44223 Registration No.	 St. Cloud Alexandria Rogers 320-217-5557	Client: INVER GROVE HEIGHTS, MINNESOTA CITY PROJ. # 2114	Project: SOUTH VALLEY PARK PHASE 1 IMPROVEMENTS INVER GROVE HEIGHTS, MINNESOTA Sheet Title: EXISTING CONDITIONS	SHEET C1.0	
8.12.22	BID SET		Designed by: RJK						07.27.22 Date
			Drawn by: RJK						
			Checked By: JEA						

70TH STREET EAST

CLEAR AND GRUB WOODED AREA AS NEEDED TO PERFORM WORK
(TREES IN THIS AREA NOT SURVEYED, CONTRACTOR TO REVIEW PRIOR TO BIDDING FOR SCOPE OF TREE REMOVAL IN THIS AREA)

POWER POLE TO REMAIN

PROTECT BERM & CULVERT
(NO GRADING ALLOWED IN THIS AREA)

100' DIA. WELL PROTECTION ZONE

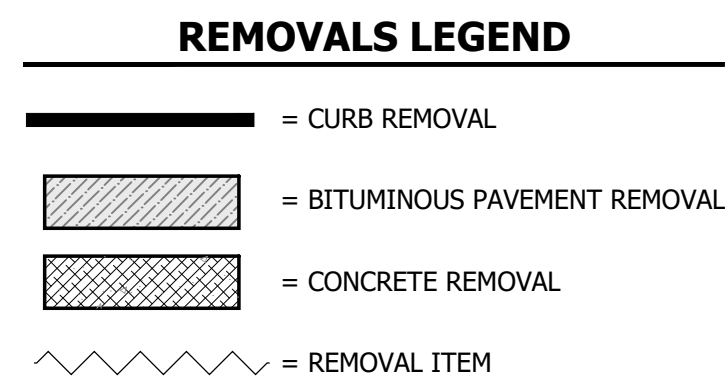
REGIONAL BASIN (CP-6)
NWL: 788.5
HWL: 808.9

REMOVALS LEGEND

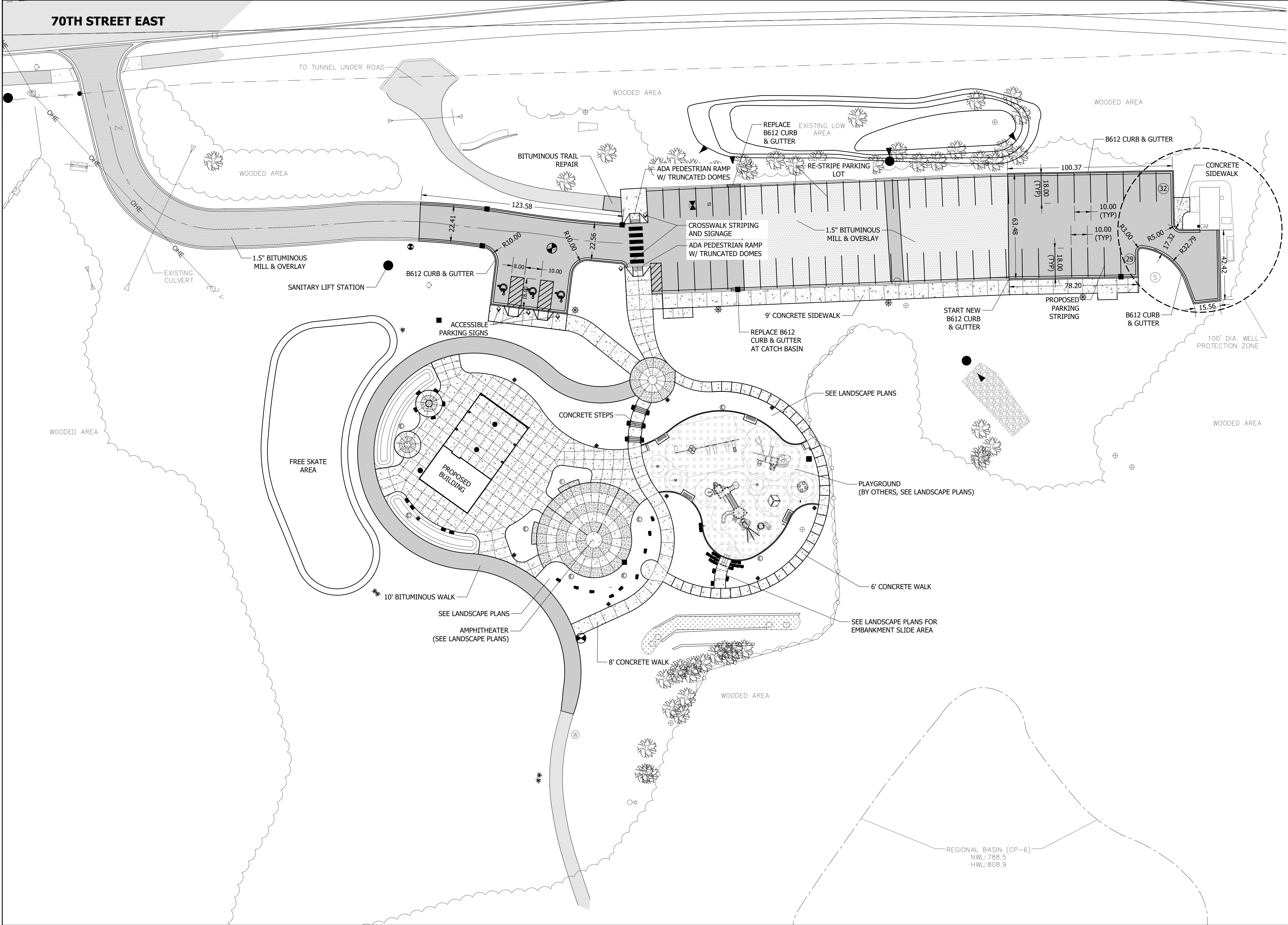
- = CURB REMOVAL
- = BITUMINOUS PAVEMENT REMOVAL
- = CONCRETE REMOVAL
- = REMOVAL ITEM

1. CONTRACTOR SHALL FIELD VERIFY ALL BUILDING DIMENSIONS AND REMOVAL LIMITS PRIOR TO ANY CONSTRUCTION.
2. DEMOLITION PERMIT REQUIRED FOR BUILDINGS AND SEPTIC SYSTEM. CONTRACTOR TO SECURE PERMIT AND FOLLOW CITY STANDARDS AND PROCEDURES.
3. SAWCUT CURB AND GUTTER AND SIDEWALK, OR REMOVE AT NEAREST EXPANSION JOINTS.
4. SAWCUT BITUMINOUS PAVEMENT FULL DEPTH AT ALL TIE-IN LOCATIONS.
5. CONTRACTOR SHALL PLACE ALL NECESSARY EROSION CONTROL MEASURES REQUIRED TO MAINTAIN SITE STABILITY PRIOR TO EXECUTING ANY SITE REMOVALS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH UTILITY PROVIDERS FOR REMOVAL AND/OR RELOCATION OF EXISTING UTILITIES AFFECTED BY SITE DEVELOPMENT. ALL PERMITS, APPLICATIONS, AND FEES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
7. ALL EXCESS OR WASTE MATERIAL GENERATED AS PART OF CONSTRUCTION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.
8. CONTRACTOR SHALL MAINTAIN FULL ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION AND TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES.
9. THE LOCATIONS AND ELEVATIONS OF THE EXISTING UTILITIES SHOWN HEREIN ARE APPROXIMATE. THEY HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND/OR RECORDS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING LOCATION AND ELEVATION TO ENSURE THAT ANY EXISTING UTILITIES (SHOWN OR NOT SHOWN) ARE NOT DAMAGED DURING CONSTRUCTION.
10. GOPHER STATE ONE CALL DAMAGE PREVENTION SYSTEM FOR BURIED UTILITIES. 1-800-252-1166.

- 1 SAWCUT EXISTING BITUMINOUS PAVEMENT
- 2 SAWCUT EXISTING CONCRETE OR REMOVE AT NEAREST EXPANSION JOINT
- 3 SAWCUT EXISTING CURB & GUTTER OR REMOVE AT NEAREST EXPANSION JOINT
- 4 REMOVE EXISTING BITUMINOUS PAVEMENT
- 5 REMOVE EXISTING CONCRETE
- 6 REMOVE EXISTING CURB & GUTTER
- 7 REMOVE BUILDING (SEE NOTE #2)
- 8 REMOVE PLAYGROUND EQUIPMENT
- 9 REMOVE AND SALVAGE EXISTING AGLIME (BY OWNER)
- 10 REMOVE TREE
- 11 REMOVE AND SALVAGE EXISTING LIGHT POLES (TYP)
- 12 REMOVE BOLLARD/ POST
- 13 REMOVE FENCE
- 14 REMOVE CATCH BASIN AND 6" PIPE
- 15 REMOVE UNDERGROUND ELECTRIC LINE
(COORDINATE W/ LOCAL POWER COMPANY)
- 16 1.5" MILL & OVERLAY
- 17 TRAIL AND PARK ENTRANCE TO BE CLOSED DURING CONSTRUCTION
- 18 REMOVE EXISTING APRON
- 19 HYDRANT TO REMAIN
- 20 REMOVE PLAYGROUND BASE
- 21 REMOVE AND SALVAGE MISC. SIGNS AND DOG BAG DISPENSER
- 22 SALVAGE ALL EXISTING PICNIC TABLES
- 23 REMOVE AND REPLACE WELL LINE (SEE UTILITY PLAN AND PROCEDURES)
- 24 CHAINLINK FENCE TO REMAIN
- 25 REMOVE SEPTIC SYSTEM (SEE NOTE #2)
- 26 RETAINING WALLS TO REMAIN
- 27 REMOVE GATE VALVE (SEE UTILITY PLAN AND PROCEDURES)
- 28 ABANDON EXISTING WATER LINE



Date	Revision	By	HKGI Project No.: 021-002	I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly licensed Engineer under the laws of the State of Minnesota.		Client:		Project:	SOUTH VALLEY PARK PHASE 1 IMPROVEMENTS INVER GROVE HEIGHTS, MINNESOTA	SHEET
8.12.22	BID SET		Designed by: RJK	 Jeremy E. Anderson, PE	 DESIGN TREE engineering + land surveying St. Cloud Alexandria Rogers 320-217-5557	INVER GROVE HEIGHTS, MINNESOTA	CITY PROJ. # 2114	Sheet Title:	REMOVALS PLAN	C2.0
			Drawn by:RJK							
			Checked By: JEA	<u>44223</u> Registration No. <u>07.27.22</u> Date						



- NOTES:**
1. ALL DIMENSIONS SHOWN ARE TO FLOW LINE, CENTERLINE OF FENCE, EDGE OF PAVEMENT, OR EXTERIOR FACE OF BUILDING, UNLESS OTHERWISE NOTED.
 2. CONTRACTOR SHALL VERIFY ALL PLAN AND DETAIL DIMENSIONS PRIOR TO CONSTRUCTION.
 3. ALL CROSSWALK STRIPING SHALL BE WHITE IN COLOR.
 4. ALL INTERIOR PARKING STALL STRIPING SHALL BE 4" AND YELLOW IN COLOR.
 5. ACCESSIBLE PARKING STALL STRIPING, ACCESS AISLE, AND SYMBOL SHALL BE PAINTED IN ACCORDANCE WITH LOCAL AUTHORITY REQUIREMENTS.
 6. CONTRACTOR SHALL MAINTAIN FULL ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION AND TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES.
 7. ALL SITE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
 8. NO CONTAMINATION SOURCES ALLOWED WITHIN 50' OF WELL.
 9. GOPHER STATE ONE CALL DAMAGE PREVENTION SYSTEM FOR BURIED UTILITIES. 1-800-252-1166.

LEGEND

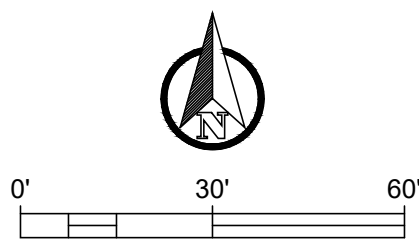
	LIGHT DUTY BITUMINOUS PAVEMENT
	HEAVY DUTY BITUMINOUS PAVEMENT
	1.5" MILL & OVERLAY
	CONCRETE PAVEMENT
	CONCRETE SIDEWALK
	PROPOSED CURB AND GUTTER
	PROPOSED TIPPED CURB AND GUTTER
	PROPOSED RETAINING WALL
	PROPOSED CHAINLINK FENCE
	PROPOSED WOOD/VINYL (PRIVACY) FENCE
	PROPOSED TRAFFIC CONTROL SIGNAGE
	PROPOSED PAINTED DIRECTIONAL ARROW
	PROPOSED PAINTED ACCESSIBLE PARKING SYMBOL

PROPERTY INFORMATION

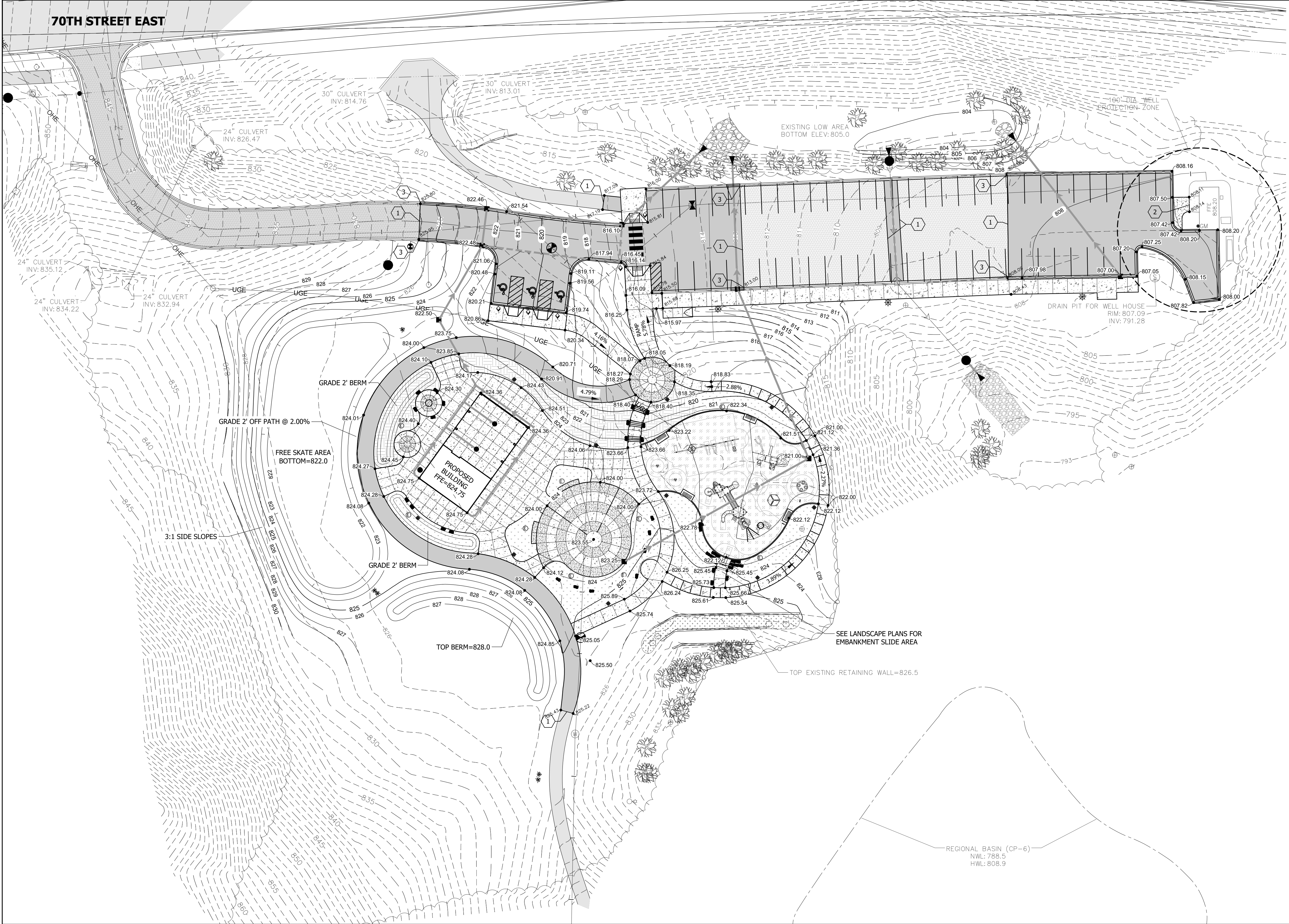
TOTAL PROPERTY AREA	24.2 AC
DISTURBED AREA	2.3 ±AC
EXISTING IMPERVIOUS AREA	59,258 SF (1.360 AC)
PROPOSED IMPERVIOUS AREA	67,388 SF (1.547 AC)
NET INCREASE IMPERVIOUS AREA	8,130 SF (0.187 AC)
VOLUME FROM 1" RUNOFF	5,616 CF
VOLUME PROVIDED BELOW WEIR	5,935 CF

PARKING INFORMATION

BEFORE IMPROVEMENTS	
PARKING STALLS	37 STALLS
ACCESSIBLE STALLS	2 STALL
TOTAL EXISTING PARKING STALLS	39 STALLS
AFTER IMPROVEMENTS	
PARKING STALLS	61 STALLS
ACCESSIBLE STALLS	3 STALLS
TOTAL PROPOSED PARKING STALLS	64 STALLS
NET INCREASE	25 STALLS



Date 8.12.22		Revision BID SET	By	HKGI Project No.: 021-002	I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly licensed Engineer under the laws of the State of Minnesota.	 St. Cloud Alexandria Rogers 320-217-5557	Client: INVER GROVE HEIGHTS, MINNESOTA CITY PROJ. # 2114	Project: SOUTH VALLEY PARK PHASE 1 IMPROVEMENTS INVER GROVE HEIGHTS, MINNESOTA	Sheet Title: CIVIL SITE PLAN	SHEET C3.0
				Designed by: RJK	Jeremy E. Anderson, PE					
				Drawn by: RJK	44223					
				Checked By: JEA	07.27.22 Date					

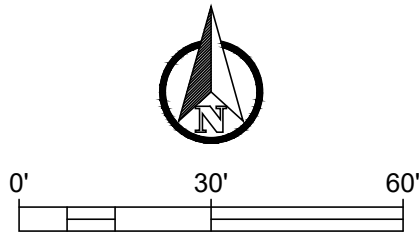


- NOTES:**
- THE LOCATIONS AND ELEVATIONS OF THE EXISTING UTILITIES SHOWN HEREIN ARE APPROXIMATE. THEY HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND/OR RECORDS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING LOCATION AND ELEVATION TO ENSURE THAT ANY EXISTING UTILITIES (SHOWN OR NOT SHOWN) ARE NOT DAMAGED DURING CONSTRUCTION.
 - SIDEWALKS SHALL MEET ADA REQUIREMENTS, AND SHALL NOT EXCEED 2.00% CROSS SLOPE, OR 5.00% LONGITUDINAL SLOPE.
 - CONCRETE ENTRANCES AND APPROACHES SHALL NOT EXCEED 2.00% CROSS SLOPE IN SIDEWALK AREAS.
 - ACCESSIBLE PARKING STALLS SHALL MEET ADA REQUIREMENTS, AND SHALL NOT EXCEED 2.00% CROSS SLOPE IN ALL DIRECTIONS.
 - PEDESTRIAN RAMPS SHALL MEET ADA REQUIREMENTS.
 - ALL EXCESS OR WASTE MATERIAL GENERATED AS PART OF CONSTRUCTION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.
 - ALL EXCAVATION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF "STANDARD SPECIFICATIONS FOR TRENCH EXCAVATION AND BACKFILL/SURFACE RESTORATION" AS PREPARED BY THE CITY ENGINEERS ASSOCIATION OF MINNESOTA.
 - ALL SITE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
 - SPOT ELEVATIONS SHOWN INDICATE FINISHED PAVEMENT ELEVATIONS & GUTTER FLOW LINE UNLESS OTHERWISE NOTED. PROPOSED CONTOURS ARE TO FINISHED SURFACE GRADE.
 - GOPHER STATE ONE CALL DAMAGE PREVENTION SYSTEM FOR BURIED UTILITIES. 1-800-252-1166.

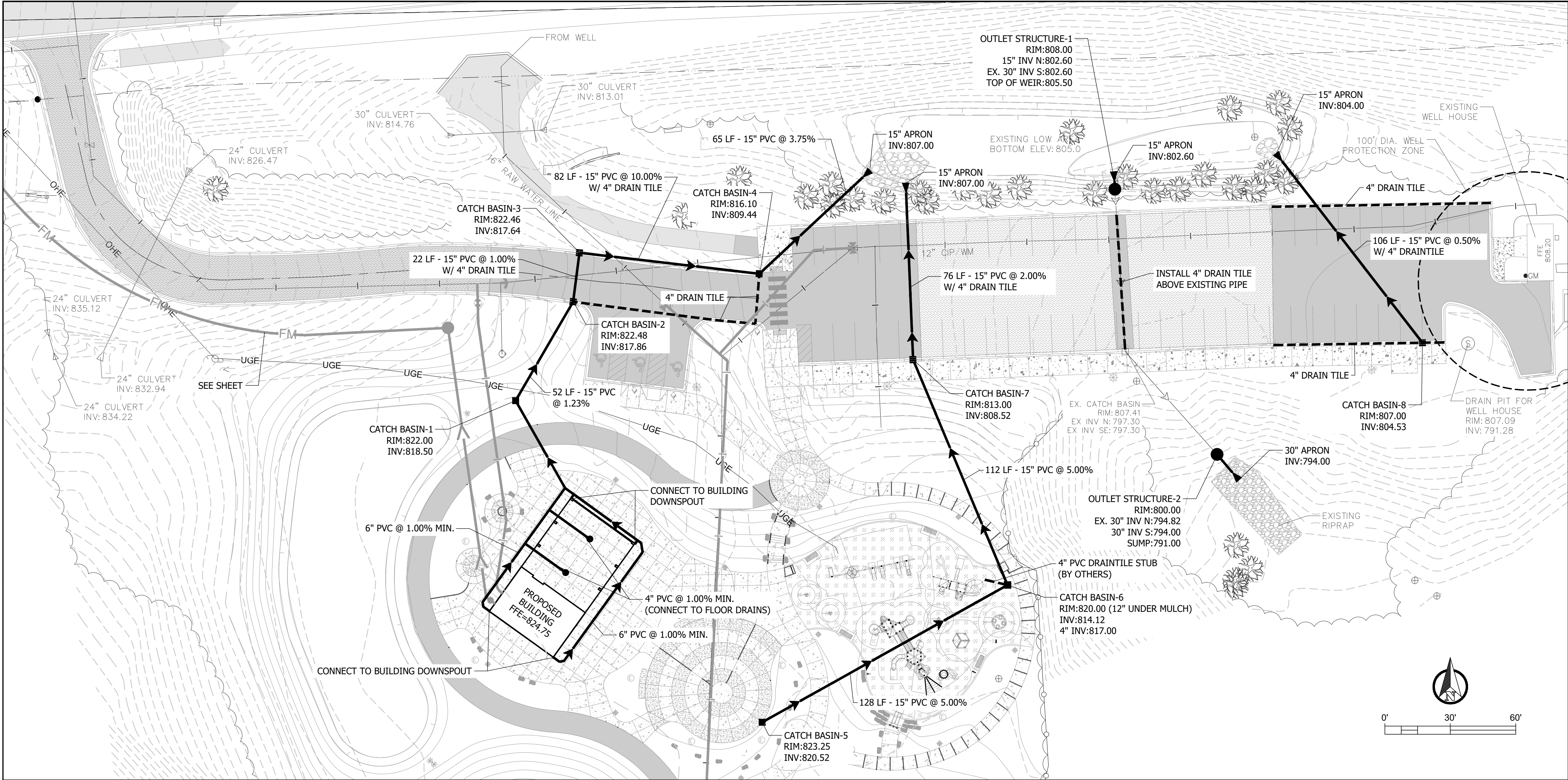
GRADING LEGEND	
	= EXISTING MAJOR CONTOUR
	= EXISTING MINOR CONTOUR
	= EXISTING CONTOUR LABEL
	= PROPOSED MAJOR CONTOUR
	= PROPOSED MINOR CONTOUR
	= PROPOSED CONTOUR LABEL
	= EXISTING SPOT ELEVATION*
	= PROPOSED SPOT ELEVATION*

*SPOT ELEVATIONS ALONG CURB & GUTTER AND OTHER REVEALS ARE TO FLOWLINE, UNLESS OTHERWISE NOTED.

- KEY NOTES:**
- 1 MATCH INTO EXISTING BITUMINOUS PAVEMENT
 - 2 MATCH INTO EXISTING CONCRETE
 - 3 MATCH INTO EXISTING CURB & GUTTER
 - 4 ADA PEDESTRIAN RAMP (SEE DETAILS)



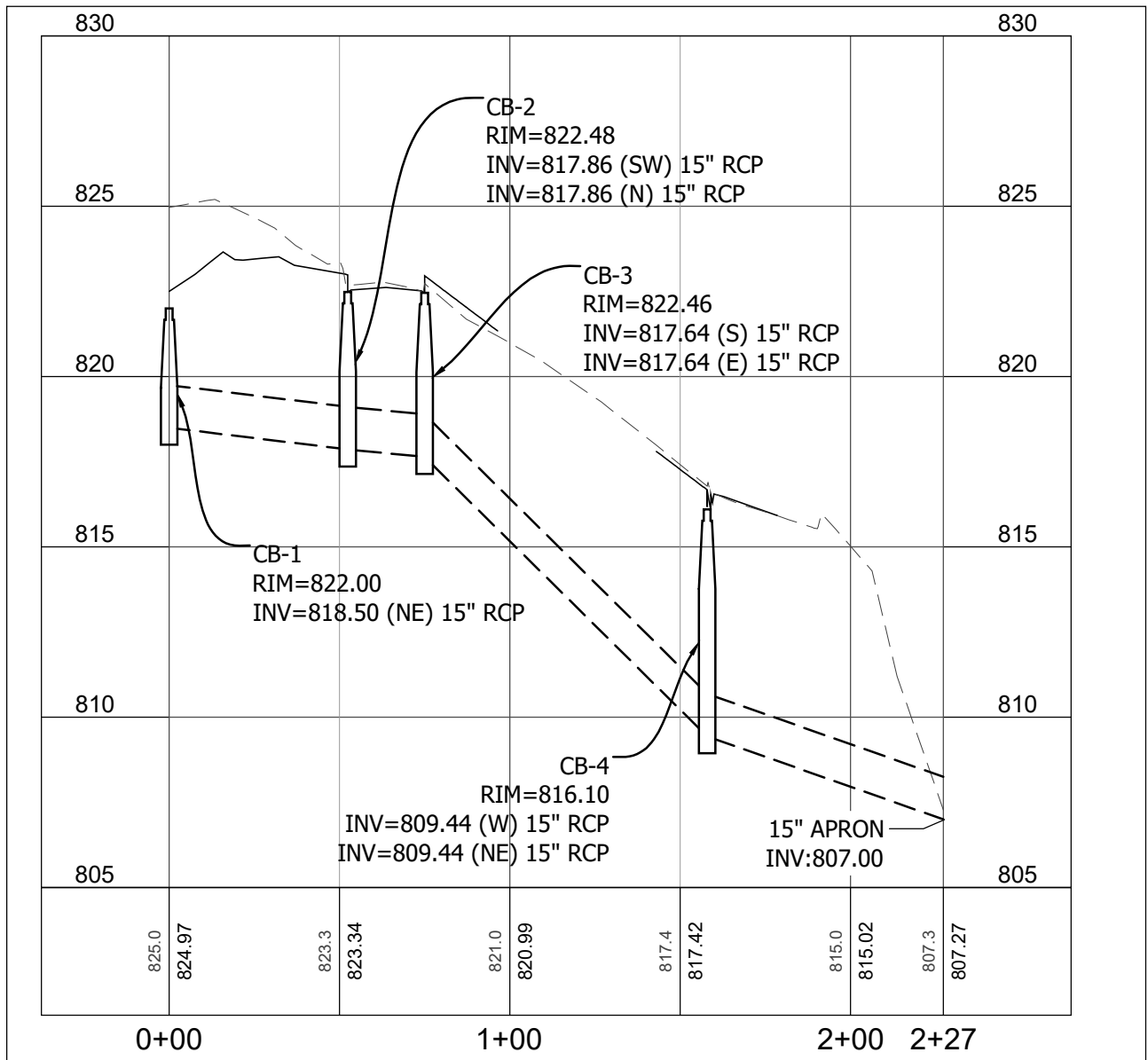
Date 8.12.22		Revision BID SET		By		HKGI Project No.: 021-002		I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly licensed Engineer under the laws of the State of Minnesota.		DESIGN TREE engineering + land surveying St. Cloud Alexandria Rogers 320-217-5557		Client: INVER GROVE HEIGHTS, MINNESOTA CITY PROJ. # 2114		Project: SOUTH VALLEY PARK PHASE 1 IMPROVEMENTS INVER GROVE HEIGHTS, MINNESOTA Sheet Title: SITE GRADING PLAN		SHEET C4.0	
				Designed by: RJK		 Jeremy E. Anderson, PE											
				Drawn by: RJK		44223 Registration No.		07.27.22 Date									
				Checked By: JEA													



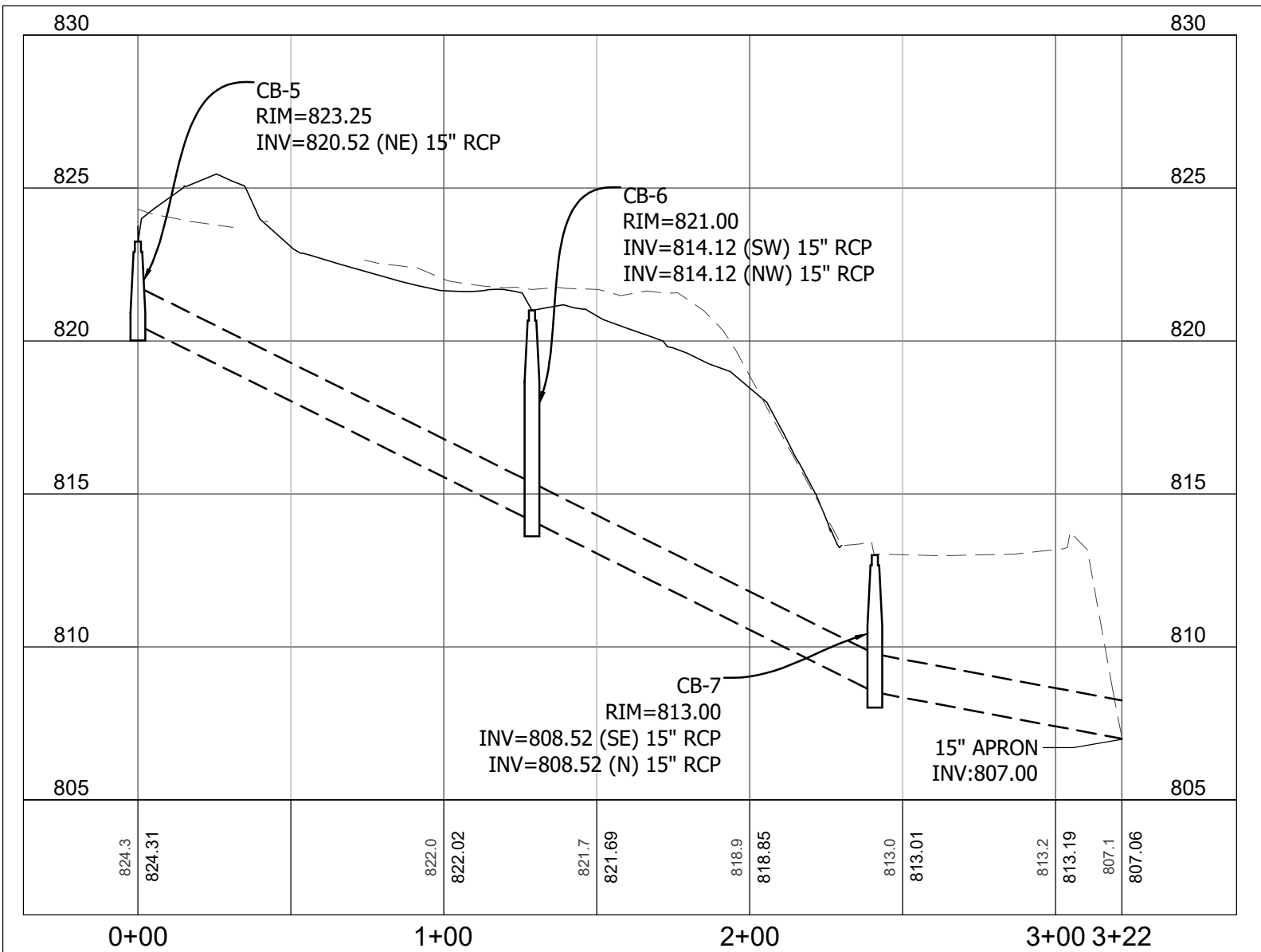
- NOTES:**
- THE LOCATIONS AND ELEVATIONS OF THE EXISTING UTILITIES SHOWN HEREIN ARE APPROXIMATE. THEY HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND/ OR RECORDS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING LOCATION AND ELEVATION TO ENSURE THAT ANY EXISTING UTILITIES (SHOWN OR NOT SHOWN) ARE NOT DAMAGED DURING CONSTRUCTION.
 - CONTRACTOR SHALL VERIFY AND COORDINATE BUILDING UTILITY CONNECTION SIZES, LOCATIONS, AND ELEVATIONS WITH PLUMBING, MECHANICAL, AND ELECTRICAL CONTRACTORS.
 - ALL EXCAVATION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF "STANDARD SPECIFICATIONS FOR TRENCH EXCAVATION AND BACKFILL/SURFACE RESTORATION" AS PREPARED BY THE CITY ENGINEERS ASSOCIATION OF MINNESOTA.
 - NO CONTAMINATION SOURCES ALLOWED WITHIN 50' OF WELL.
 - A MINIMUM VERTICAL SEPARATION OF 18 INCHES IS REQUIRED AT ALL WATER LINE CROSSINGS WITH SANITARY SEWER OR STORM SEWER. THE WATER LINE SHALL NOT HAVE JOINTS OR CONNECTIONS WITHIN 10 FEET OF THE CROSSING. INSULATE CROSSINGS WITH STORM SEWER.
 - ALL NONCONDUCTIVE PIPE SHALL BE INSTALLED WITH A LOCATE (TRACER) WIRE PER MINNESOTA RULES, PART 7560.0150
 - ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE MINNESOTA STATE PLUMBING CODE.
 - ALL PIPING SHALL BE TESTED IN ACCORDANCE WITH THE MINNESOTA STATE PLUMBING CODE.
 - ALL IMPROVEMENTS SHALL REMAIN VISIBLE FOR INSPECTION .
 - GOPHER STATE ONE CALL DAMAGE PREVENTION SYSTEM FOR BURIED UTILITIES. 1-800-252-1166

UTILITY LEGEND

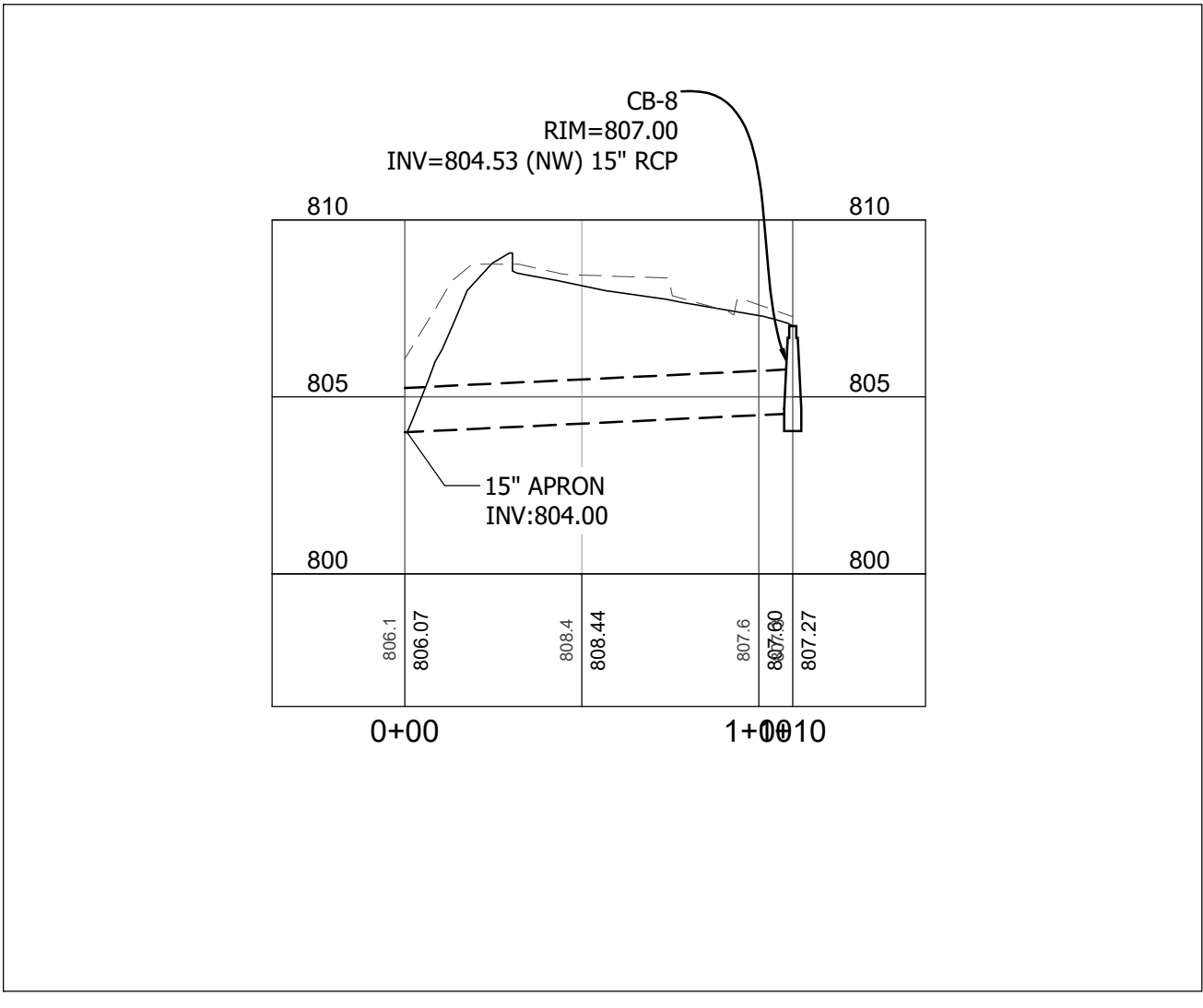
- | | | | |
|--|-----------------------------|--|-----------------------------|
| | = EXISTING HYDRANT | | = PROPOSED HYDRANT |
| | = EXISTING CURB STOP | | = PROPOSED CURB STOP |
| | = EXISTING GATE VALVE | | = PROPOSED GATE VALVE |
| | = EXISTING SANITARY MANHOLE | | = PROPOSED SANITARY MANHOLE |
| | = EXISTING CLEANOUT | | = PROPOSED CLEANOUT |
| | = EXISTING STORM MANHOLE | | = PROPOSED STORM MANHOLE |
| | = EXISTING CATCH BASIN | | = PROPOSED CATCH BASIN |
| | = EXISTING CULVERT APRON | | = PROPOSED CULVERT APRON |
| | = EXISTING WATER LINE | | = PROPOSED WATER LINE |
| | = EXISTING SANITARY LINE | | = PROPOSED SANITARY LINE |
| | = EXISTING STORM LINE | | = PROPOSED STORM LINE |



PROFILE OVER WESTERLY STORM SEWER SYSTEM
1"=50'

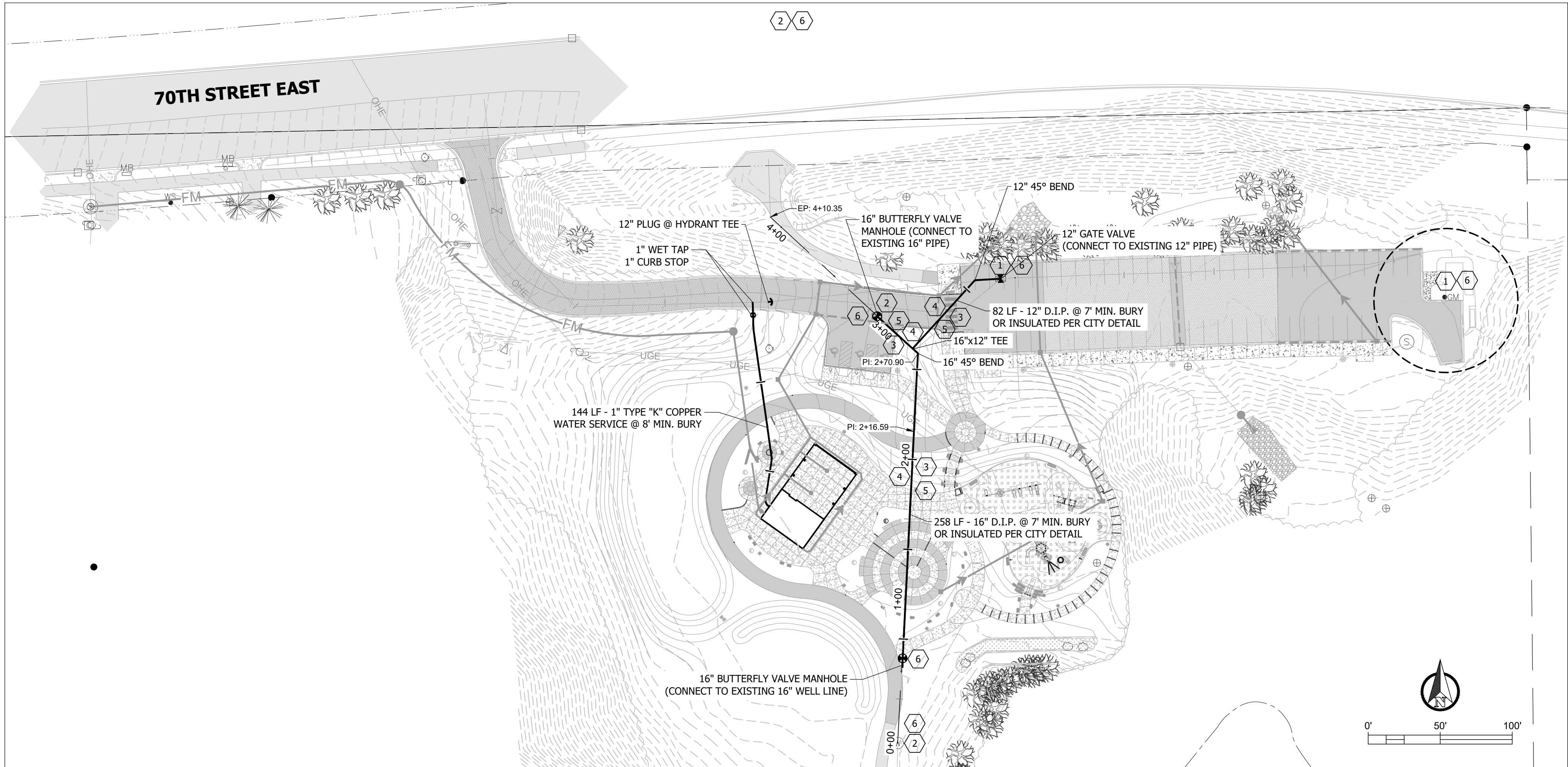


PROFILE OVER CENTRAL STORM SEWER SYSTEM
1"=50'

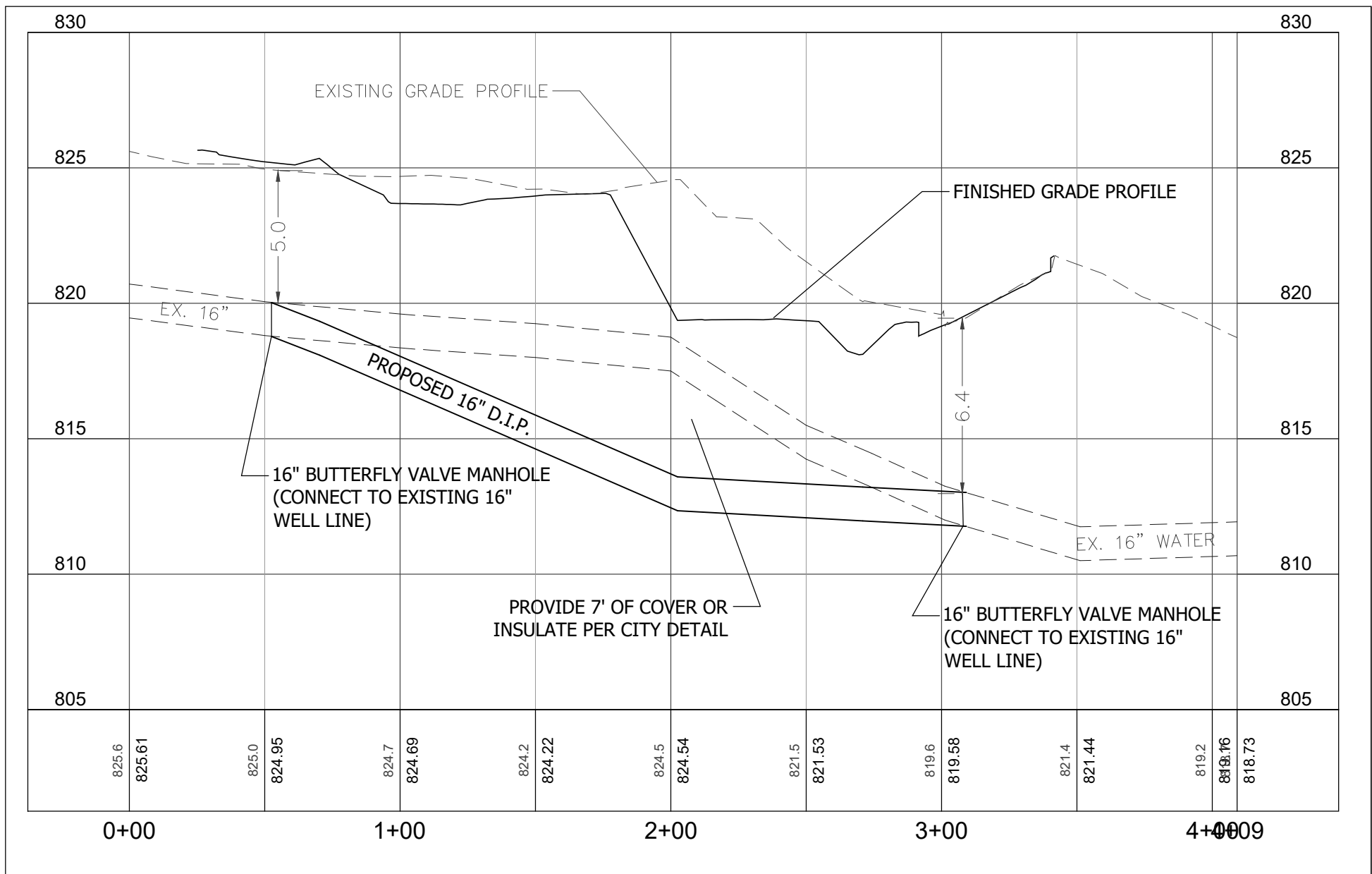


PROFILE OVER EASTERLY STORM SEWER SYSTEM
1"=50'

Date	Revision	By	HKGI Project No.: 021-002	I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly licensed Engineer under the laws of the State of Minnesota.  Jeremy E. Anderson, PE 44223 Registration No.	 DESIGN TREE engineering + land surveying St. Cloud Alexandria Rogers 320-217-5557	Client: INVER GROVE HEIGHTS, MINNESOTA CITY PROJ. # 2114	Project: SOUTH VALLEY PARK PHASE 1 IMPROVEMENTS INVER GROVE HEIGHTS, MINNESOTA Sheet Title: STORM SEWER SYSTEM PLAN & PROFILE	SHEET C5.0	
8.12.22	BID SET		Designed by: RJK						07.27.22 Date
			Drawn by: RJK						
			Checked By: JEA						



PLAN VIEW OVER 16" RAW WATER LINE



PROFILE OVER 16" RAW WATER LINE

1"=50'

NOTES:

- THE LOCATIONS AND ELEVATIONS OF THE EXISTING UTILITIES SHOWN HEREIN ARE APPROXIMATE. THEY HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND/ OR RECORDS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING LOCATION AND ELEVATION TO ENSURE THAT ANY EXISTING UTILITIES (SHOWN OR NOT SHOWN) ARE NOT DAMAGED DURING CONSTRUCTION.
- CONTRACTOR SHALL VERIFY AND COORDINATE BUILDING UTILITY CONNECTION SIZES, LOCATIONS, AND ELEVATIONS WITH PLUMBING, MECHANICAL, AND ELECTRICAL CONTRACTORS.
- ALL EXCAVATION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF "STANDARD SPECIFICATIONS FOR TRENCH EXCAVATION AND BACKFILL/SURFACE RESTORATION" AS PREPARED BY THE CITY ENGINEERS ASSOCIATION OF MINNESOTA.
- NO CONTAMINATION SOURCES ALLOWED WITHIN 50' OF WELL.
- ALL WATER PIPING SHALL BE BURIED A MINIMUM OF 7' OR BE INSULATED PER DETAILS.
- SEE WATER DETAILS FOR ADDITIONAL INFORMATION.
- A MINIMUM VERTICAL SEPARATION OF 18 INCHES IS REQUIRED AT ALL WATER LINE CROSSINGS WITH SANITARY SEWER OR STORM SEWER. THE WATER LINE SHALL NOT HAVE JOINTS OR CONNECTIONS WITHIN 10 FEET OF THE CROSSING. INSULATE CROSSINGS WITH STORM SEWER.
- ALL NONCONDUCTIVE PIPE SHALL BE INSTALLED WITH A LOCATE (TRACER) WIRE PER MINNESOTA RULES, PART 7560.0150
- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE MINNESOTA STATE PLUMBING CODE.
- ALL PIPING SHALL BE TESTED IN ACCORDANCE WITH THE MINNESOTA STATE PLUMBING CODE.
- ALL IMPROVEMENTS SHALL REMAIN VISIBLE FOR INSPECTION .
- GOPHER STATE ONE CALL DAMAGE PREVENTION SYSTEM FOR BURIED UTILITIES. 1-800-252-1166

SEQUENCE OF CONSTRUCTION

- CLOSE 12" GATE VALVE AND SHUT OFF WELL (COORDINATE WITH CITY UTILITY DEPT.)
- SHUT 16" GATE VALVE, SHUT VALVE IN VAULT AND SHUT OFF WELL (COORD. WITH CITY UTILITY DEPT.)
- REMOVE 12" PIPE EAST OF CLOSED VALVE. REMOVE 16" PIPE BETWEEN NEW VALVES.
- INSTALL NEW 12" PIPE, 16" PIPE, FITTINGS, VALVES, STRUCTURES AND ALL APPURTANCES.
- PERFORM ALL NECESSARY TESTING ON NEW PIPING.
- OPEN ALL 16" VALVES, 12" VALVES AND TURN ON WELL PRIOR TO JUNE 1, 2022(COORD. WITH CITY UTILITY DEPT.)

NOTES:

ALL WORK ASSOCIATED WITH THE REMOVAL, RELOCATION, INSTALLATION AND TESTING OF THE WELL LINES FOR THE PROJECT SHALL BE COMPLETED BETWEEN SEPTEMBER 1ST 2022, AND JUNE 1ST 2023.

FAILURE TO COMPLETE THE WELL LINE CONSTRUCTION SCOPE OF THE PROJECT BY JUNE 1, 2023 WILL RESULT IN THE ASSESSMENT OF LIQUIDATED DAMAGES AT THE RATES AND PER THE CONDITIONS OUTLINED IN CONTRACT.

Date 8.12.22		Revision BID SET	By	HKGI Project No.: 021-002	I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly licensed Engineer under the laws of the State of Minnesota.	DESIGN TREE engineering + land surveying St. Cloud Alexandria Rogers 320-217-5557	Client: INVER GROVE HEIGHTS, MINNESOTA CITY PROJ. # 2114	Project: SOUTH VALLEY PARK PHASE 1 IMPROVEMENTS INVER GROVE HEIGHTS, MINNESOTA	SHEET C5.1
				Designed by: RJK					
				Drawn by: RJK	Jeremy E. Anderson, PE				
				Checked By: JEA	44223 Registration No.				
					07.27.22 Date			Sheet Title: WATER DISTRIBUTION PLAN & PROFILE	

NOTES:

1.

THE LOCATIONS AND ELEVATIONS OF THE EXISTING UTILITIES SHOWN HEREIN ARE APPROXIMATE. THEY HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND/OR RECORDS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING LOCATION AND ELEVATION TO ENSURE THAT ANY EXISTING UTILITIES (SHOWN OR NOT SHOWN) ARE NOT DAMAGED DURING CONSTRUCTION.
2.

CONTRACTOR SHALL VERIFY AND COORDINATE BUILDING UTILITY CONNECTION SIZES, LOCATIONS, AND ELEVATIONS WITH PLUMBING, MECHANICAL, AND ELECTRICAL CONTRACTORS.
3.

ALL EXCAVATION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF "STANDARD SPECIFICATIONS FOR TRENCH EXCAVATION AND BACKFILL/SURFACE RESTORATION" AS PREPARED BY THE CITY ENGINEERS ASSOCIATION OF MINNESOTA.
4.

NO CONTAMINATION SOURCES ALLOWED WITHIN 50' OF WELL.
5.

A MINIMUM VERTICAL SEPARATION OF 18 INCHES IS REQUIRED AT ALL WATER LINE CROSSINGS WITH SANITARY SEWER OR STORM SEWER. THE WATER LINE SHALL NOT HAVE JOINTS OR CONNECTIONS WITHIN 10 FEET OF THE CROSSING. INSULATE CROSSINGS WITH STORM SEWER.
6.

SANITARY SEWER CLEANOUTS SHALL BE PROVIDED WITHIN 5' OF THE BUILDING FOR UNIT'S CONNECTION.
7.

SANITARY SEWER CLEANOUT SPACING SHALL NOT EXCEED 90'.
8.

SANITARY SEWER SERVICES SHALL HAVE A MINIMUM OF 2.00% GRADE.
9.

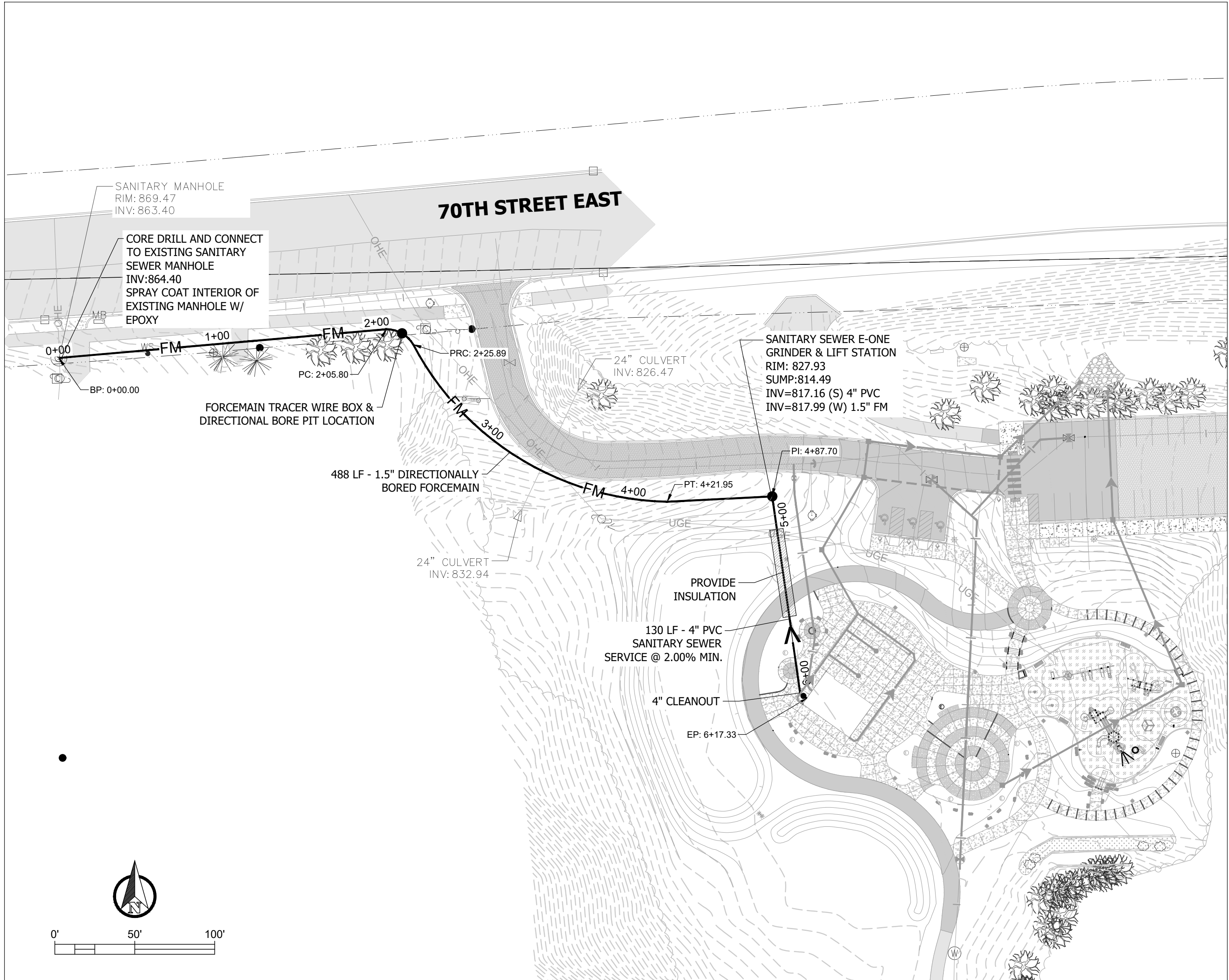
ALL NONCONDUCTIVE PIPE SHALL BE INSTALLED WITH A LOCATE (TRACER) WIRE PER MINNESOTA RULES, PART 7560.0150
10.

ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE MINNESOTA STATE PLUMBING CODE.
11.

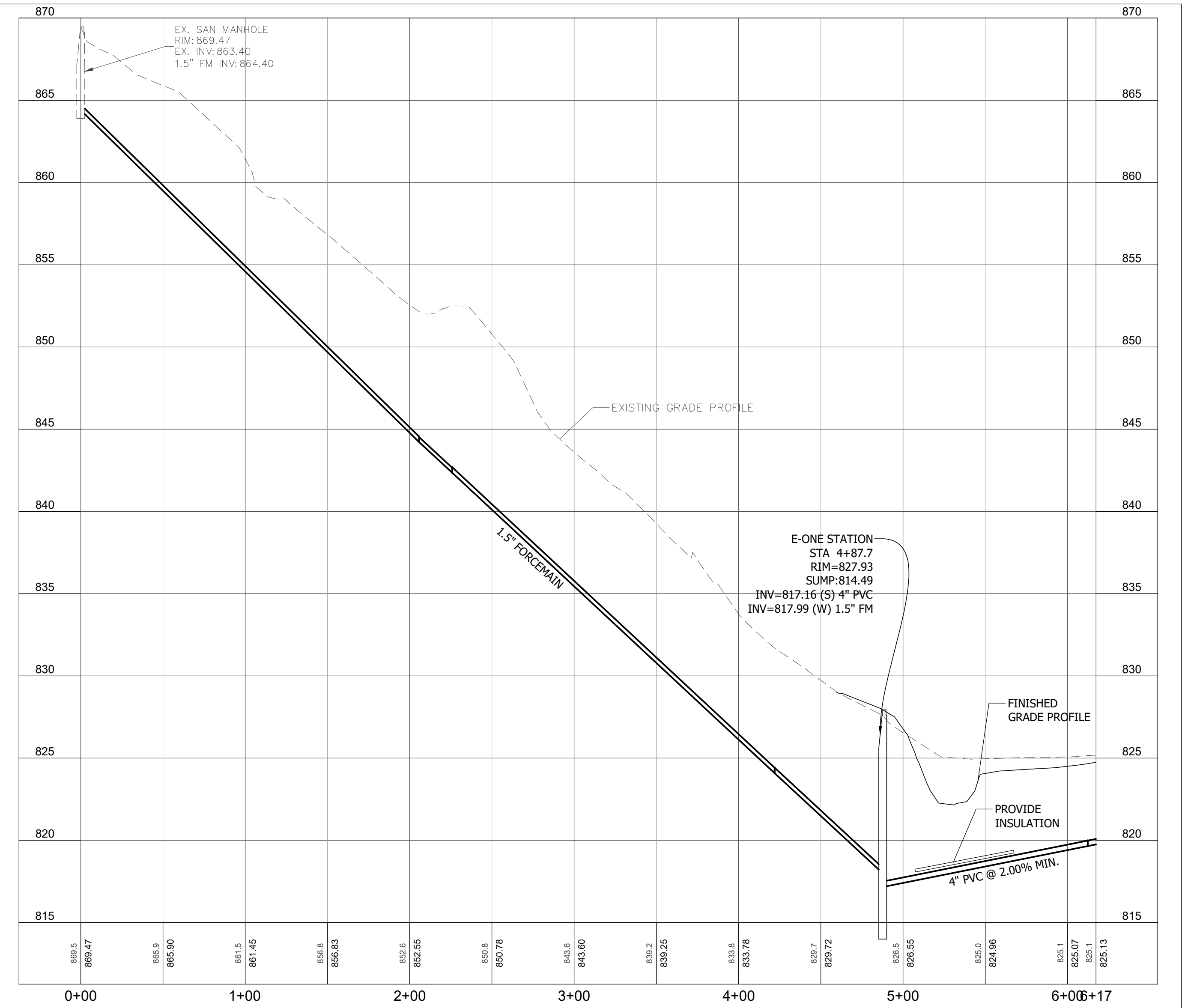
ALL PIPING SHALL BE TESTED IN ACCORDANCE WITH THE MINNESOTA STATE PLUMBING CODE.
12.

ALL IMPROVEMENTS SHALL REMAIN VISIBLE FOR INSPECTION .
13.

GOPHER STATE ONE CALL DAMAGE PREVENTION SYSTEM FOR BURIED UTILITIES. 1-800-252-1166



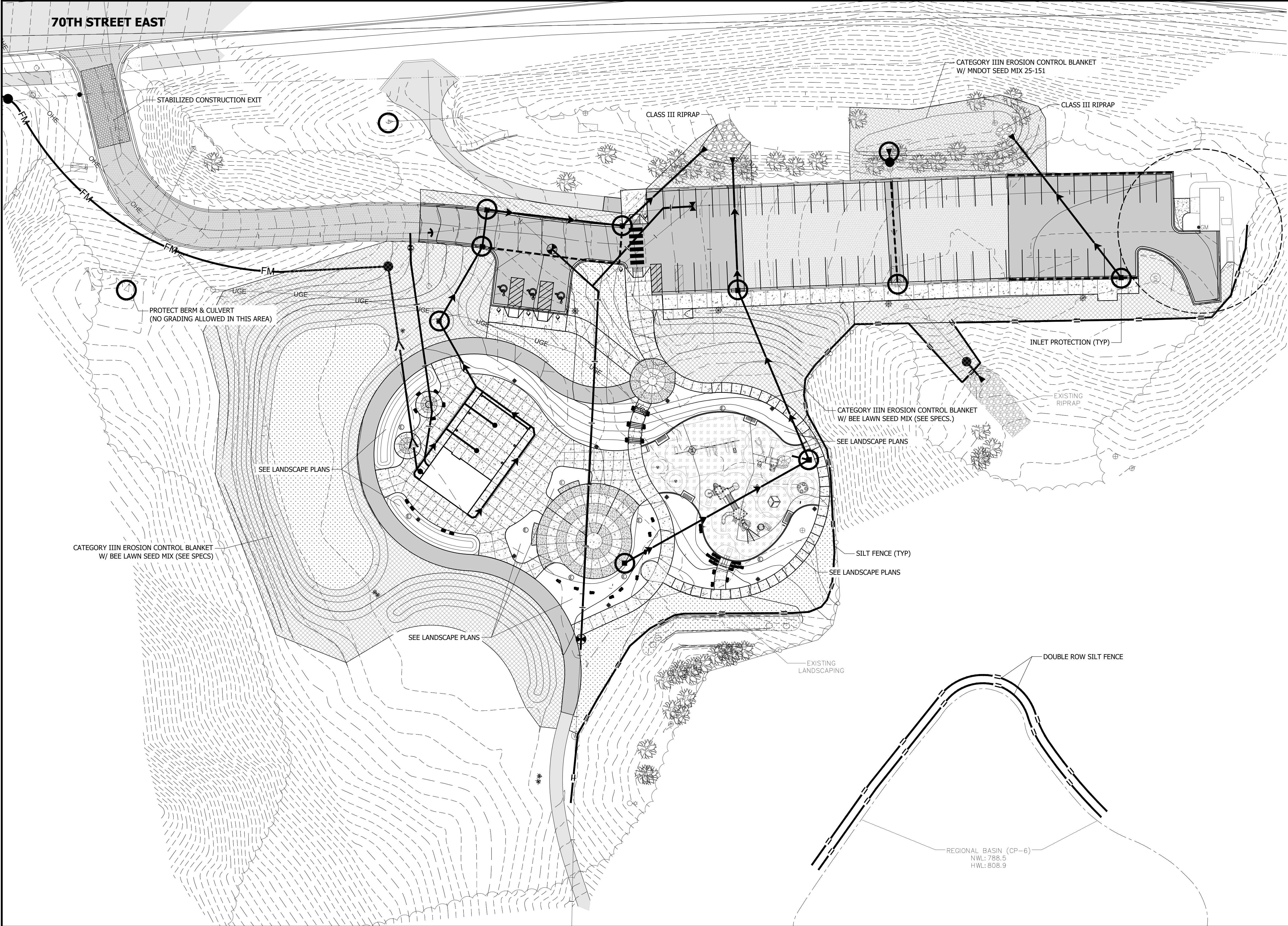
PLAN VIEW OVER SANITARY FORCE MAIN



PROFILE OVER SANITARY FORCE MAIN

1"=50'

Date 8.12.22		Revision BID SET		By		HKGI Project No.: 021-002		I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly licensed Engineer under the laws of the State of Minnesota.		DESIGN TREE engineering + land surveying St. Cloud Alexandria Rogers 320-217-5557		Client: INVER GROVE HEIGHTS, MINNESOTA CITY PROJ. # 2114		Project: SOUTH VALLEY PARK PHASE 1 IMPROVEMENTS INVER GROVE HEIGHTS, MINNESOTA		SHEET C5.2	
				Designed by: RJK				Jeremy E. Anderson, PE						Sheet Title: SANITARY SYSTEM PLAN & PROFILE			
				Drawn by: RJK													
				Checked By: JEA													
								Registration No.		Date							

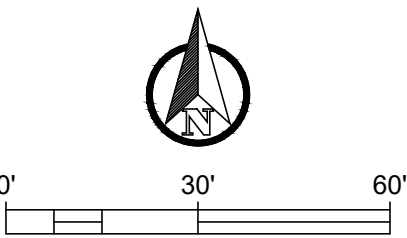


- NOTES:**
- ALL DISTURBED AREAS SHALL BE FINAL GRADED AND PERMANENTLY STABILIZED WITH THE SEED MIX IDENTIFIED ON PLANS.
 - SEE LANDSCAPE PLANS FOR SEEDING AND LANDSCAPING WITHIN WALK/TRAIL AREAS.
 - THE SITE MUST BE STABILIZED PER THE REQUIREMENTS OF THE MPCA, NPDES, MNDOT, AND CITY.
 - INSTALL EROSION CONTROL BLANKET ON ALL SLOPES STEEPER THAN 4:1.
 - ALL EROSION CONTROL BLANKET SHALL HAVE NATURAL NETTING.
 - INLET PROTECTION SHALL BE PROVIDED ON ALL CATCH BASINS AND INLETS DOWN GRADIENT OF CONSTRUCTION ACTIVITY.
 - PROVIDE SILT FENCE PERIMETER CONTROL DOWN GRADIENT OF ALL CONSTRUCTION ACTIVITY AND TEMPORARY STOCKPILES.
 - TEMPORARY STABILIZED CONSTRUCTION EXITS SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION.
 - NO OFFSITE VEHICLE TRACKING IS PERMITTED. STREETS SHALL BE CLEANED AND SWEEPED WHENEVER TRACKING OF SEDIMENTS OCCURS AND BEFORE SITES ARE LEFT IDLE FOR WEEKENDS AND HOLIDAYS.
 - REFER TO THE SWPPP AND THE CITY OF INVER GROVE HEIGHTS EROSION CONTROL REQUIREMENTS FOR FURTHER EROSION CONTROL SEQUENCING.
 - IN ADDITION TO THESE PLANS, A STORMWATER MANAGEMENT STUDY HAS BEEN PROVIDED. THE STORMWATER MANAGEMENT STUDY INCLUDES ADDITIONAL INFORMATION REGARDING THE DESIGN OF THE STORMWATER MANAGEMENT BMP. THE CONTRACTOR SHALL REVIEW THE STORMWATER BOOK AND COMPLY WITH ALL STATE AND LOCAL REQUIREMENTS.
 - WHEN INSTALLING END-OF-LINE FLARED END SECTIONS, BRING THE SILT FENCE UP & OVER THE FLARED END SECTIONS & COVER DISTURBED AREAS WITH RIP RAP. THE UPSTREAM FLARED END SECTIONS SHALL HAVE WOOD FIBER BLANKET INSTALLED ON THE DISTURBED SOILS.
 - INFILTRATION AREAS SHALL NOT BE EXCAVATED TO FINAL GRADE UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN CONSTRUCTED AND STABILIZED. ONLY LOW IMPACT TRACK EQUIPMENT SHALL BE USED WITHIN INFILTRATION AREAS.
 - GOPHER STATE ONE CALL DAMAGE PREVENTION SYSTEM FOR BURIED UTILITIES. 1-800-252-1166.

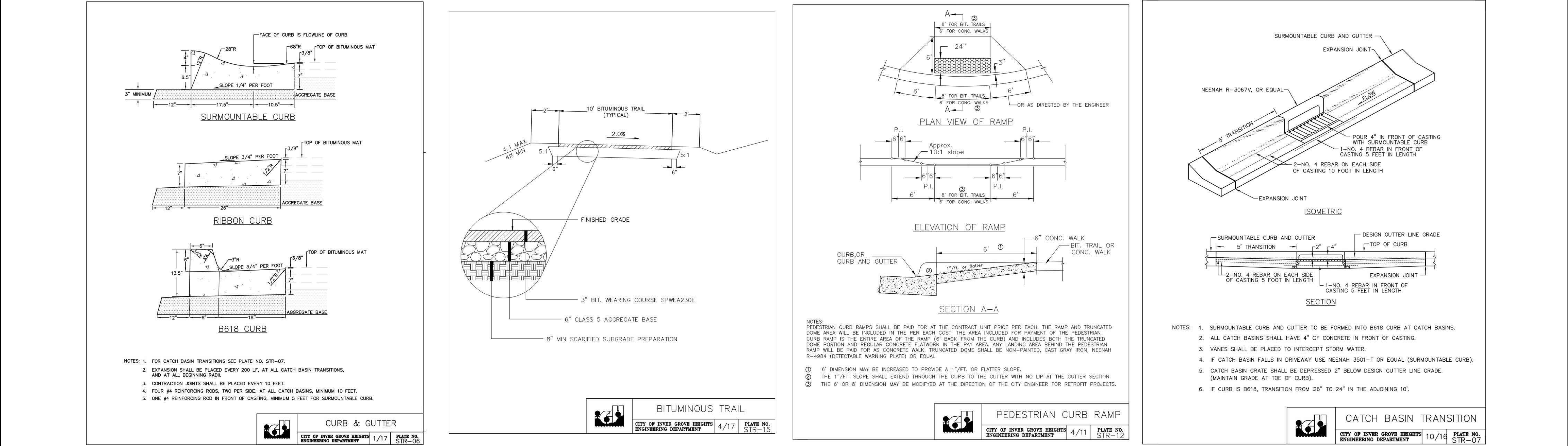
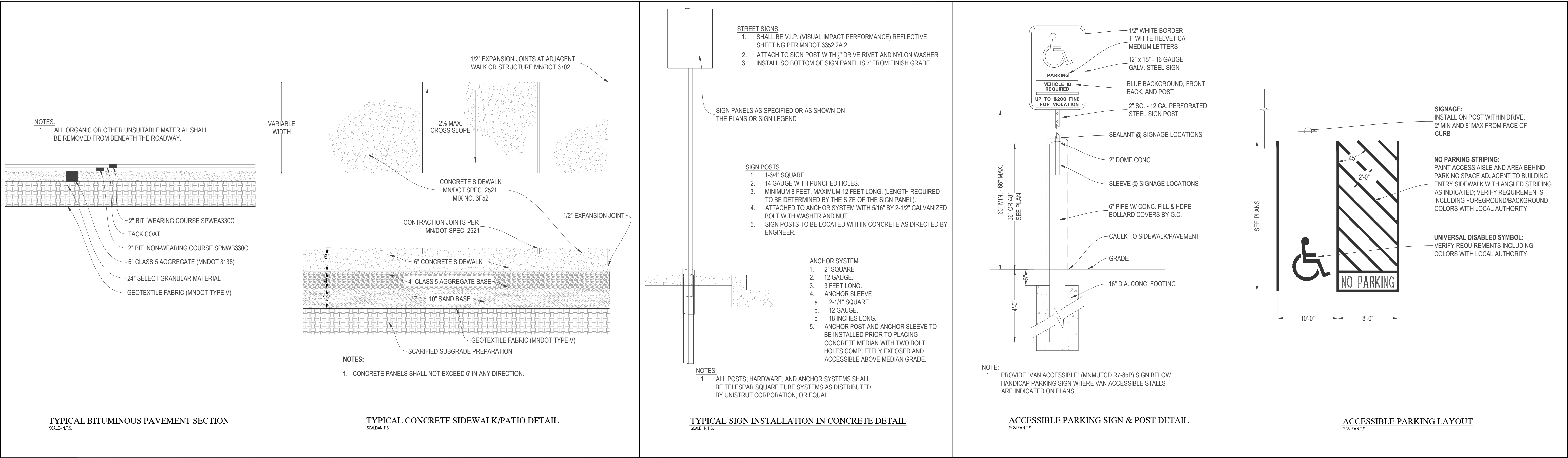
EROSION CONTROL QUANTITIES:

	STABILIZED CONSTRUCTION EXIT	(1 EA)
	SILT FENCE	(1,340 LF)
	BEE LAWN SEED MIX (SEE SPECS.)	(1.1 AC)
	RIPRAP	(70 SY)
	CATEGORY IIIN EROSION CONTROL BLANKET W/ BEE LAWN SEED MIX	(3,698 SY)
	CATEGORY IIIN EROSION CONTROL BLANKET W/ MNDOT SEED MIX 25-151	(695 SY)
	INLET PROTECTION	(12 EA)

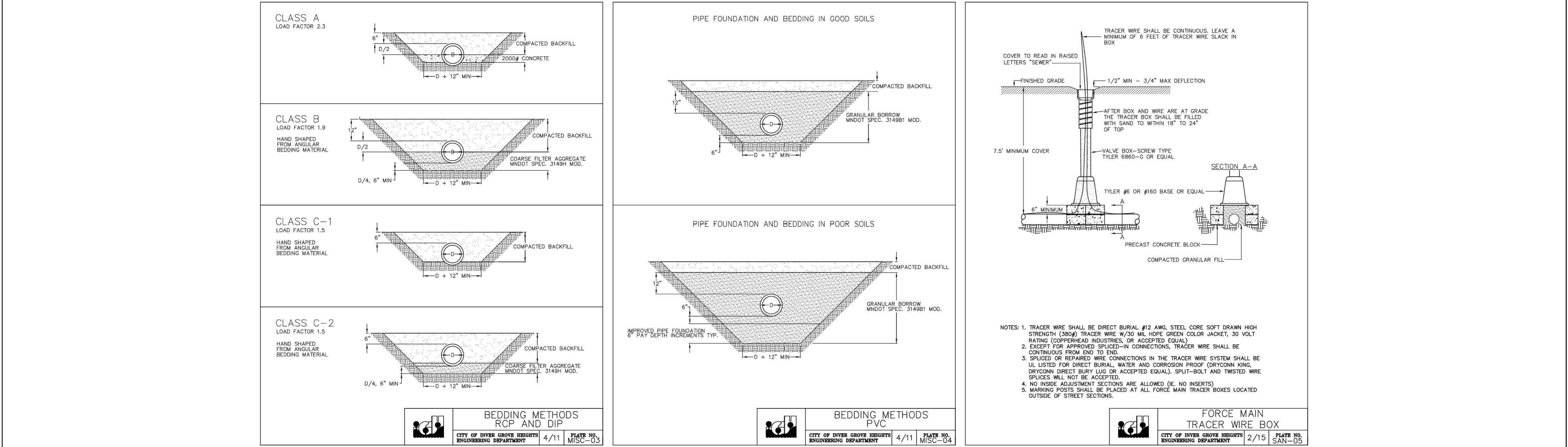
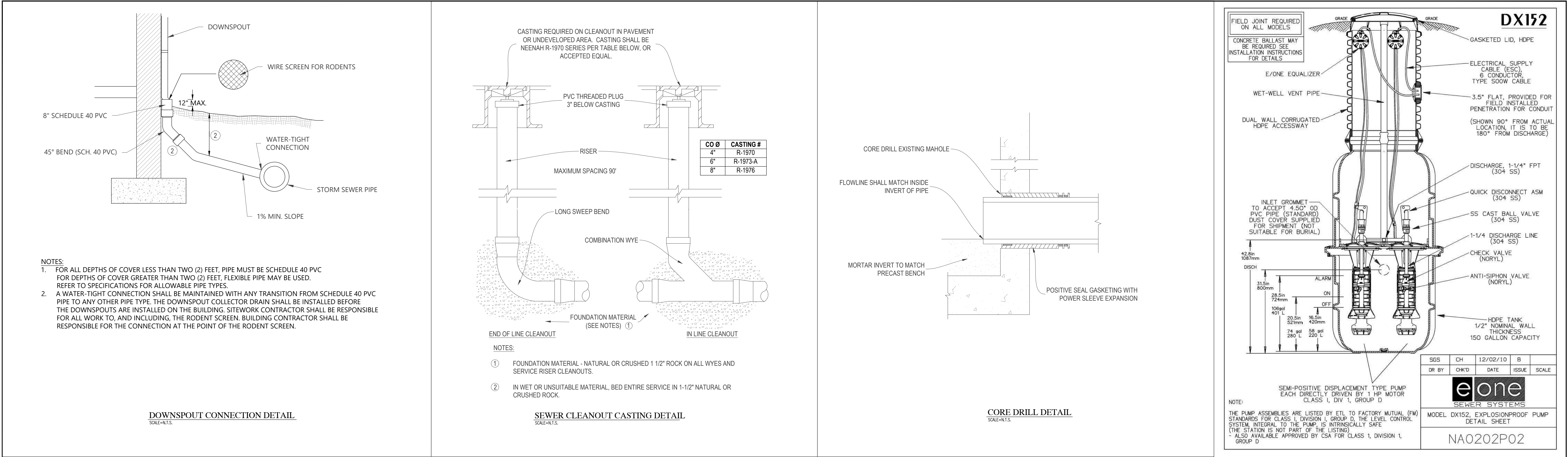
NOTE: QUANTITIES SHOWN ARE FOR SWPPP PLAN, AND ARE NOT FOR BIDDING PURPOSES.

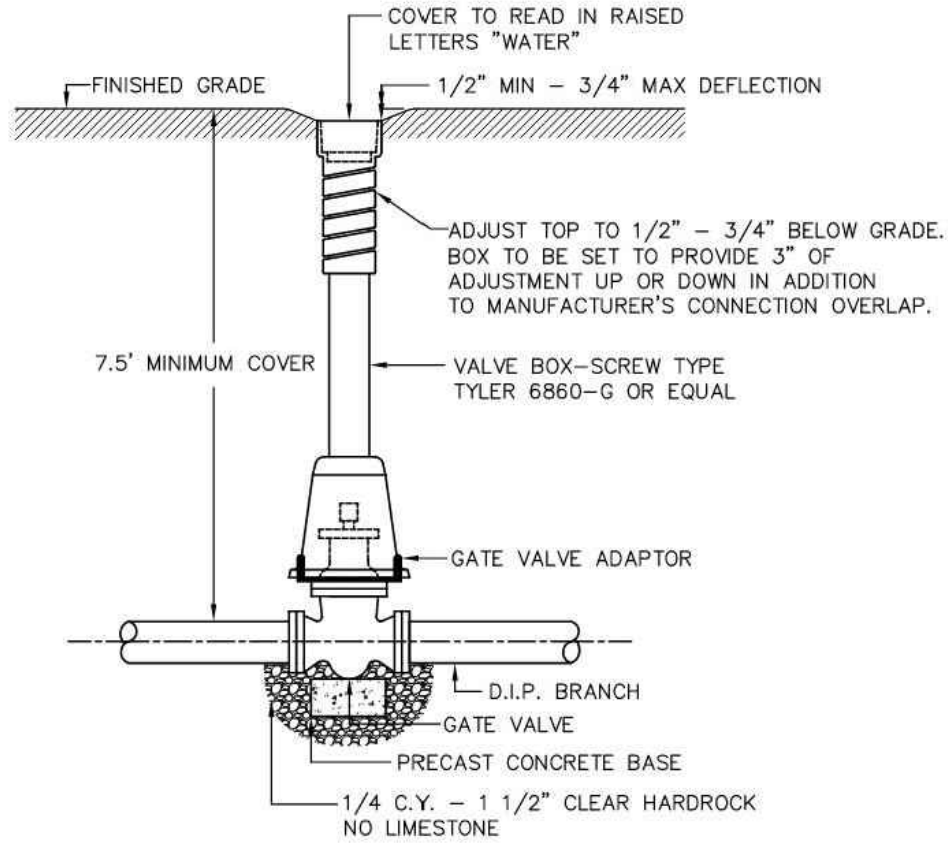


Date: 8.12.22		Revision: BID SET	By:	HKGI Project No.: 021-002	I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly licensed Engineer under the laws of the State of Minnesota. Jeremy E. Anderson, PE 44223 Registration No. 07.27.22 Date	 DESIGN TREE engineering + land surveying St. Cloud Alexandria Rogers 320-217-5557	Client: INVER GROVE HEIGHTS, MINNESOTA CITY PROJ. # 2114	Project: SOUTH VALLEY PARK PHASE 1 IMPROVEMENTS INVER GROVE HEIGHTS, MINNESOTA Sheet Title: EROSION CONTROL PLAN	SHEET C6.0
				Designed by: RJK					
				Drawn by: RJK					
				Checked By: JEA					

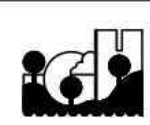


Date 8.12.22	Revision BID SET	By	HKGI Project No.: 021-002	I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly licensed Engineer under the laws of the State of Minnesota.	DESIGN TREE engineering + land surveying St. Cloud Alexandria Rogers 320-217-5557	Client: INVER GROVE HEIGHTS, MINNESOTA CITY PROJ. # 2114	Project: SOUTH VALLEY PARK PHASE 1 IMPROVEMENTS INVER GROVE HEIGHTS, MINNESOTA	SHEET C7.0
			Designed by: RJK	Jeremy G. Anderson, PE				
			Drawn by: RJK					
			Checked By: JEA	44223 Registration No.		07.27.22 Date		CIVIL DETAILS





- NOTES: 1. HYDRANT, STUB, & SERVICE VALVES SHALL BE RODDED TO THE MAIN.
2. GATE VALVES TO CONFORM WITH AWWA C509-80 STANDARDS.
3. TIE RODS TO BE 5/8" DIAMETER THREADED STEEL.
4. ALL TIE RODS TO BE SPRAYED WITH A BITUMINOUS COAL TAR PROTECTIVE COATING I.E. LOCTITE HEAVY DUTY RUBBERIZED UNDERCOATING, OR APPROVED EQUAL.
5. ALL WATERMAIN BOLTS ARE CORE-BLUE OR APPROVED EQUAL.
6. NO INSIDE ADJUSTMENT SECTIONS ALLOWED (IE. NO INSERTS).
7. MARKING POST SHALL BE INSTALLED AT ALL GATE VALVES LOCATED OUTSIDE OF STREET SECTIONS. SEE PLATE NO. MISC-01.

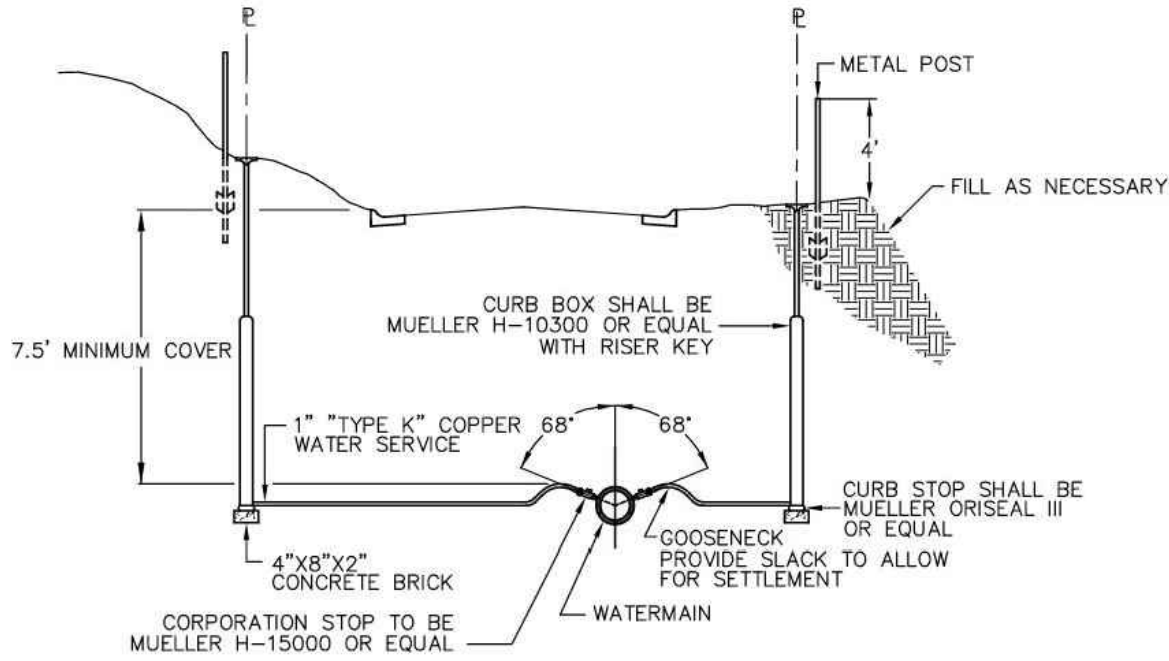


VALVE BOX INSTALLATION

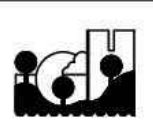
CITY OF INVER GROVE HEIGHTS
ENGINEERING DEPARTMENT

2/14

PLATE NO.
WTR-02



- NOTES: 1. NO COPPER TO COPPER CONNECTIONS SHALL BE MADE IN THE PUBLIC RIGHT OF WAY.
2. COPPER SERVICE SHALL NOT EXTEND BEYOND THE CURB BOX (NO PIGTAILS).
3. INSTALL CURB BOX WITH RISER KEY.
4. CURB BOX TO BE PLACED AT HALF EXTENSION.
5. FORD TYPE A-1 SINGLE LID COVER (4" BURY DEPTH) OR EQUAL FOR CURB BOXES IN DRIVEWAYS, SIDEWALKS, OR PARKING AREAS.
6. INSTALL METAL TEE FENCE POST 6" TO 12" BEHIND CURB BOX LOCATION. FENCE POST SHALL BE GREEN WITH TOP PAINTED BLUE.

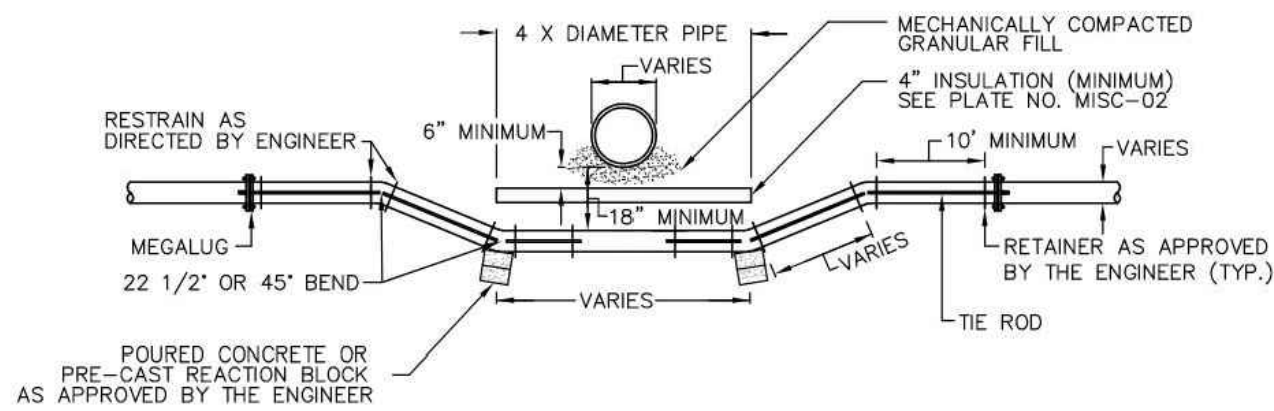


TYPICAL RESIDENTIAL
WATER SERVICE

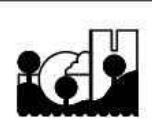
CITY OF INVER GROVE HEIGHTS
ENGINEERING DEPARTMENT

4/11

PLATE NO.
WTR-03



- NOTE: 1. ALL TIE RODS TO BE SPRAYED WITH A BITUMINOUS COAL TAR PROTECTIVE COATING (I.E. LOCTITE HEAVY DUTY RUBBERIZED UNDERCOATING OR APPROVED EQUAL).
2. TIE RODS TO BE 5/8" DIAMETER THREADED STEEL.
3. ALL WATERMAIN BOLTS ARE CORE-BLUE OR APPROVED EQUAL.
4. PVC MEGALUGS WILL BE USED ON ALL CAST IRON PIPE.

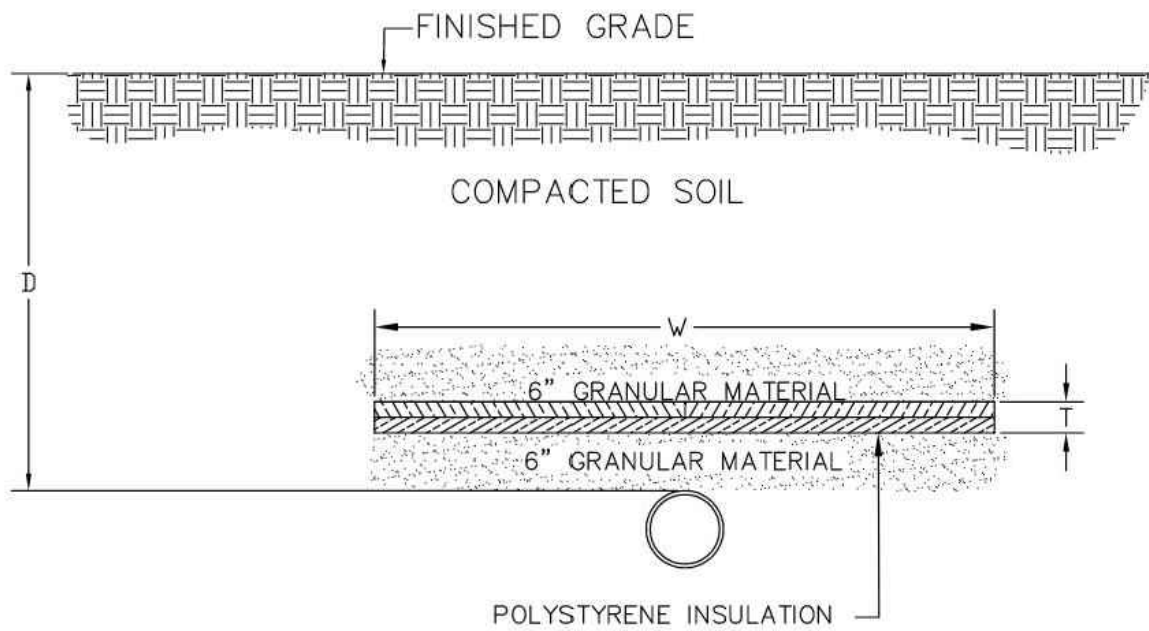


WATERMAIN ADJUSTMENT

CITY OF INVER GROVE HEIGHTS
ENGINEERING DEPARTMENT

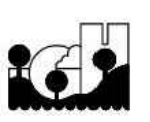
3/11

PLATE NO.
WTR-05



DEPTH TO TOP OF PIPE D	WIDTH OF INSULATION W	THICKNESS OF INSULATION
2'-3'	12'	4"
3'-4'	10'	4"
4'-5'	8'	4"
5'-6'	6'	2"
6'-7'	4'	2"
7'+	NONE	NONE

- NOTE: 1. INSULATION SHALL BE EXTRUDED RIGID BOARD MATERIAL HAVING A THERMAL CONDUCTIVITY OF 0.23 BTU/HR/SQUARE FOOT/DEGREE FAHRENHEIT/PER INCH OF THICKNESS MAXIMUM AT 40° F MEAN, A COMPREHENSIVE STRENGTH OF 35 PSI MINIMUM AND WATER ABSORPTION OF .25 PERCENT BY VOLUME MAXIMUM.
2. UTILITIES WITH SEPERATION UNDER 30" REQUIRE 4" INSULATION, 8" WIDE

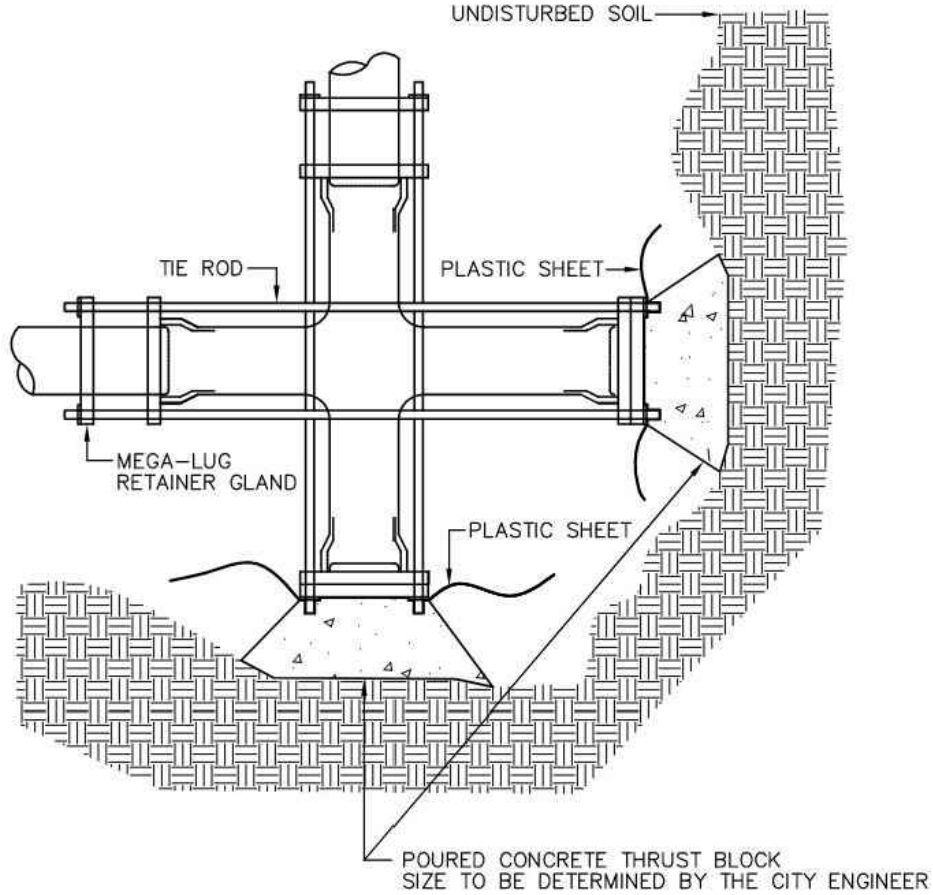


INSULATION DETAIL

CITY OF INVER GROVE HEIGHTS
ENGINEERING DEPARTMENT

4/11

PLATE NO.
MISC-02



- NOTES: 1. TYING BACK PLUG (TIE RODS) SHALL BE DONE IN ADDITION TO THRUST BLOCKING.
2. TIE RODS TO BE 5/8" DIAMETER THREADED STEEL.
3. ALL TIE RODS TO BE SPRAYED WITH A BITUMINOUS COAL TAR PROTECTIVE COATING I.E. LOCTITE HEAVY DUTY RUBBERIZED UNDERCOATING OR APPROVED EQUAL.
4. TYING BACK PLUG IS INCIDENTAL TO WATERMAIN INSTALLATION.
5. ALL WATERMAIN BOLTS ARE CORE-BLUE OR APPROVED EQUAL.
6. POURED CONCRETE OR PRECAST BLOCKS TO BE USED FOR BLOCKING (NO WOOD, CURBING, SIDEWALK, ETC.).
7. PRECAST BLOCKS (MANHOLE BLOCKS OR EQUAL) MAY BE USED ON 6" OR 8" WATERMAIN.
8. PLASTIC SHEETING SHALL BE WRAPPED AROUND PLUG PRIOR TO POURING CONCRETE.
9. CONCRETE SHALL NOT BE POURED AROUND SIDES OF PLUG.
10. CONCRETE SHALL BE 4000 PSI.
11. ALL SERVICE STUBS AND FUTURE WATERMAIN EXTENSIONS MUST HAVE A 1" CORP AND 1" TYPE "K" BLEED OFF AS DIRECTED BY THE CITY ENGINEER.

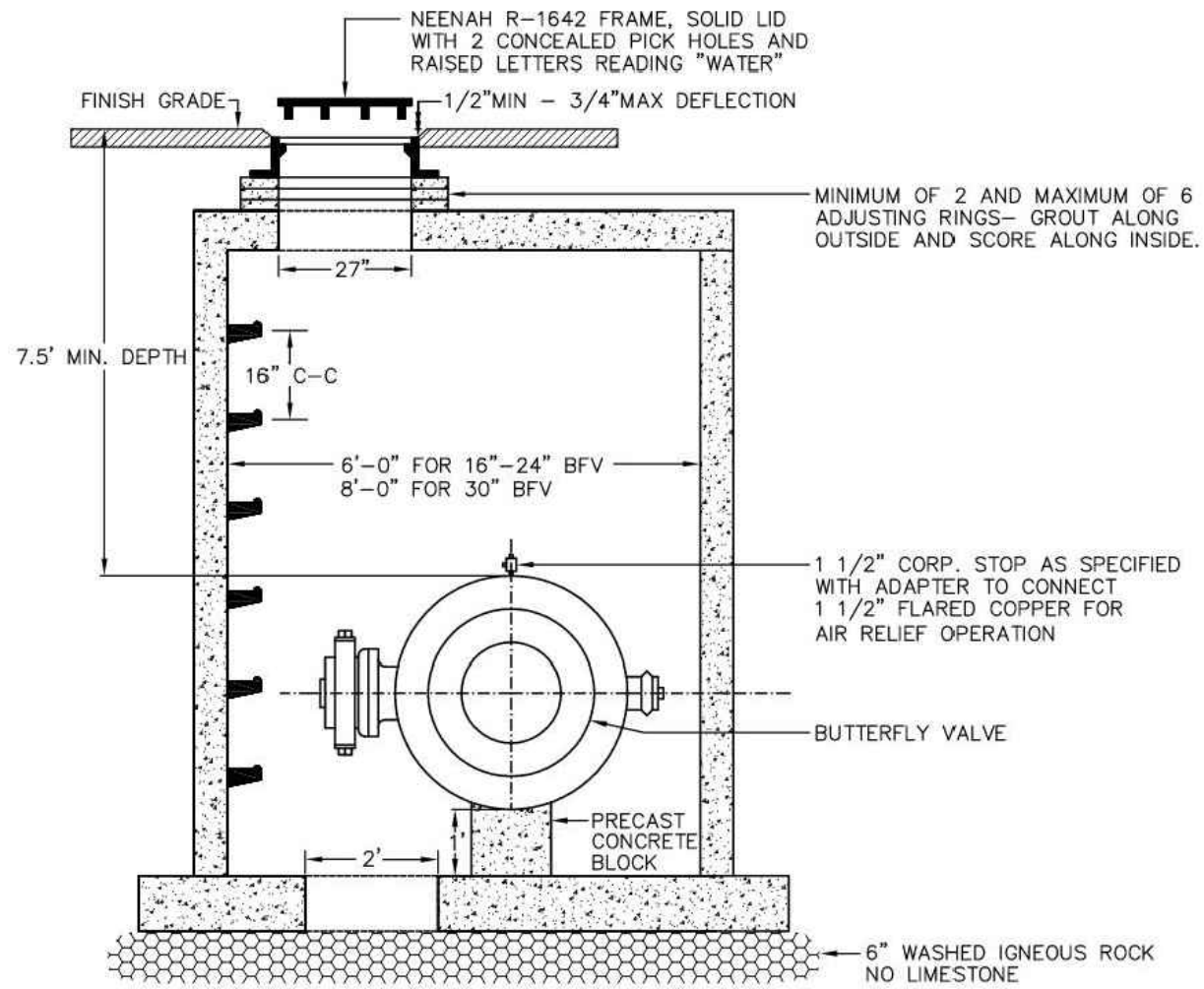


TYPICAL WATERMAIN PLUG

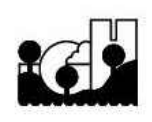
CITY OF INVER GROVE HEIGHTS
ENGINEERING DEPARTMENT

3/11

PLATE NO.
WTR-06



- NOTES: 1. OPERATING NUT MUST BE CENTERED UNDER MANHOLE OPENING.
2. GEARBOX MUST BE POSITIONED SO IT IS REMOVABLE AND MAINTAINABLE.
3. MARKING POSTS SHALL BE INSTALLED AT ALL MANHOLES LOCATED OUTSIDE OF STREET RIGHT OF WAYS. SEE PLATE NO. MISC-01.



BUTTERFLY VALVE MANHOLE

CITY OF INVER GROVE HEIGHTS
ENGINEERING DEPARTMENT

2/14

PLATE NO.
WTR-08

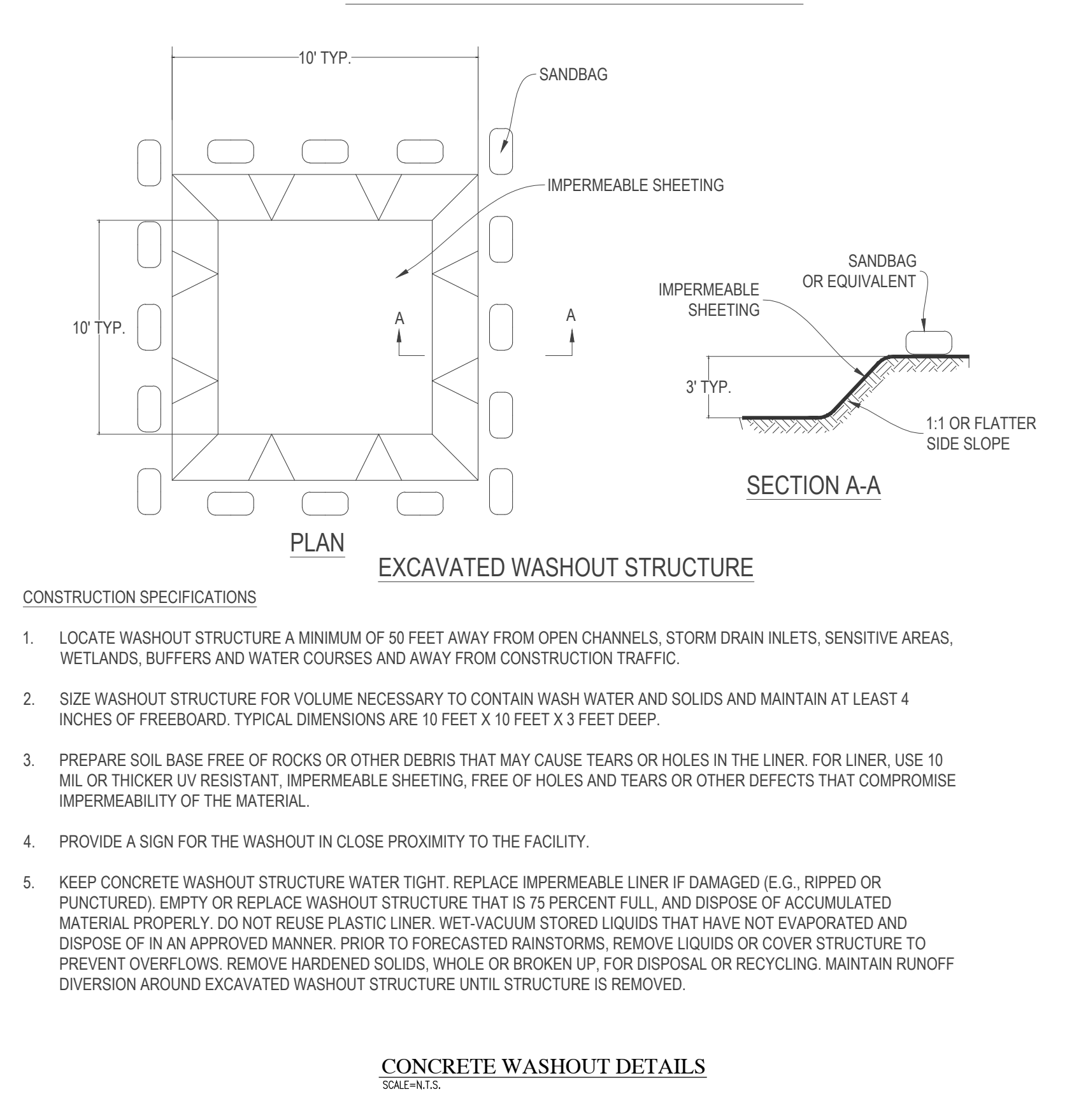
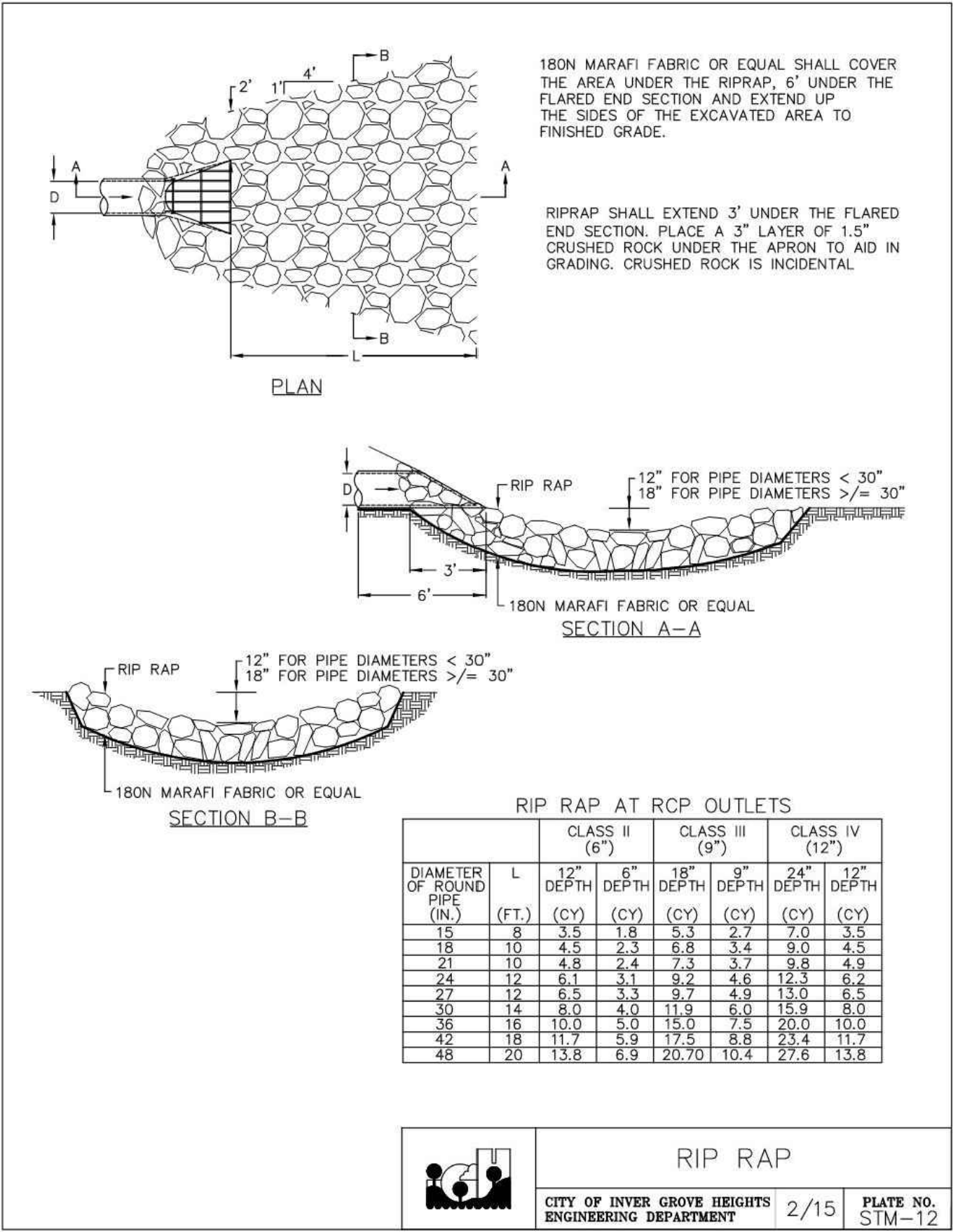
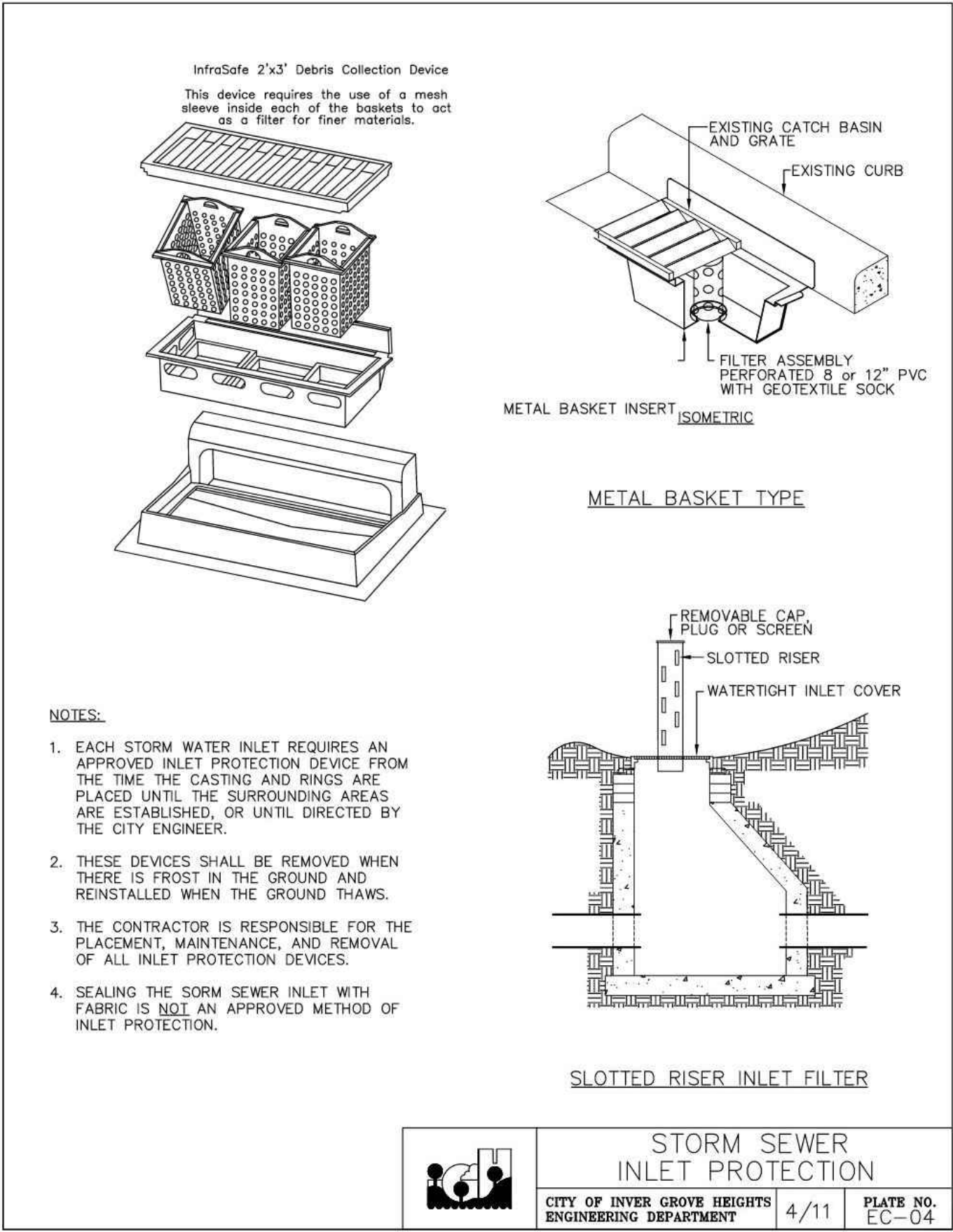
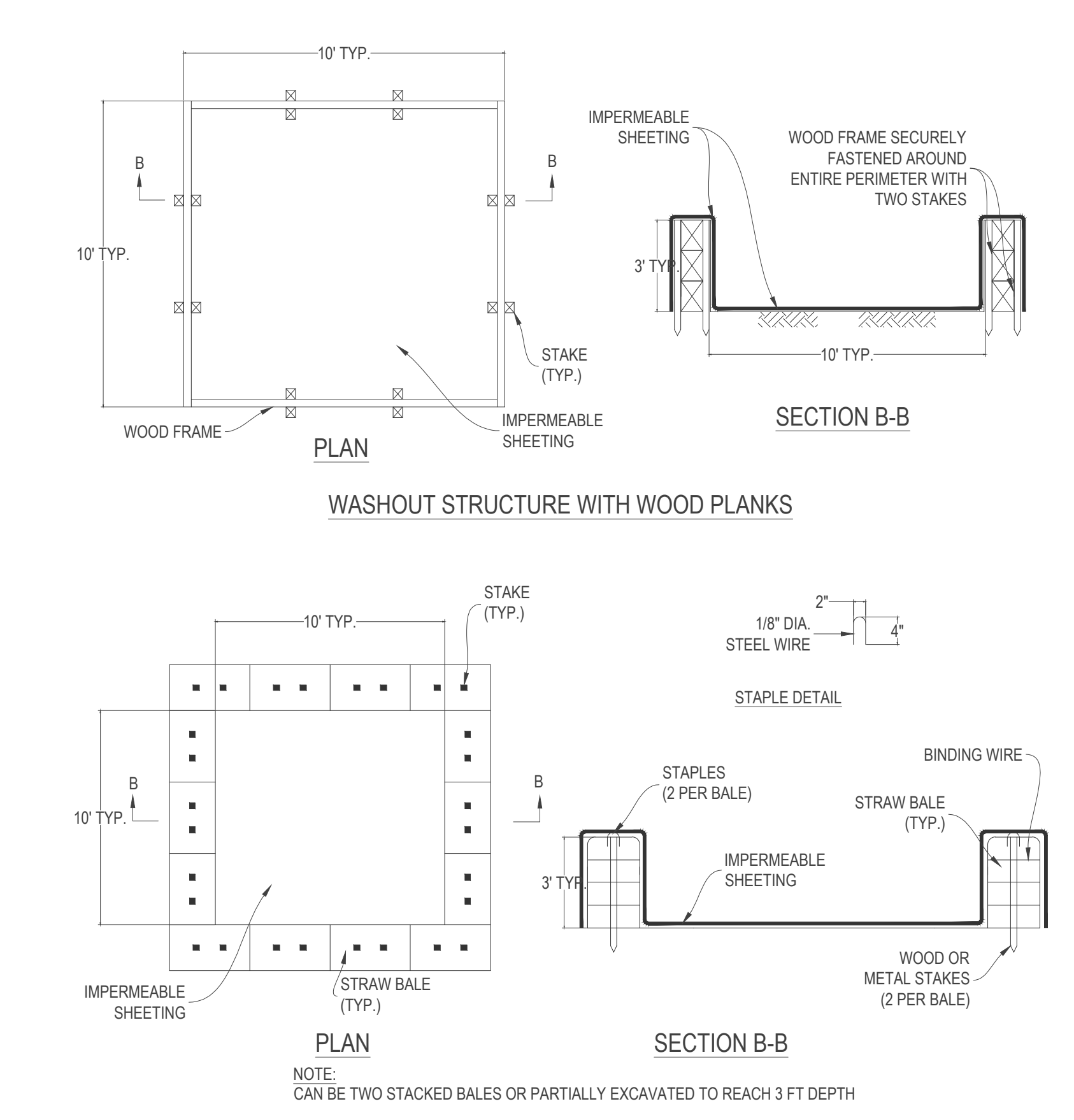
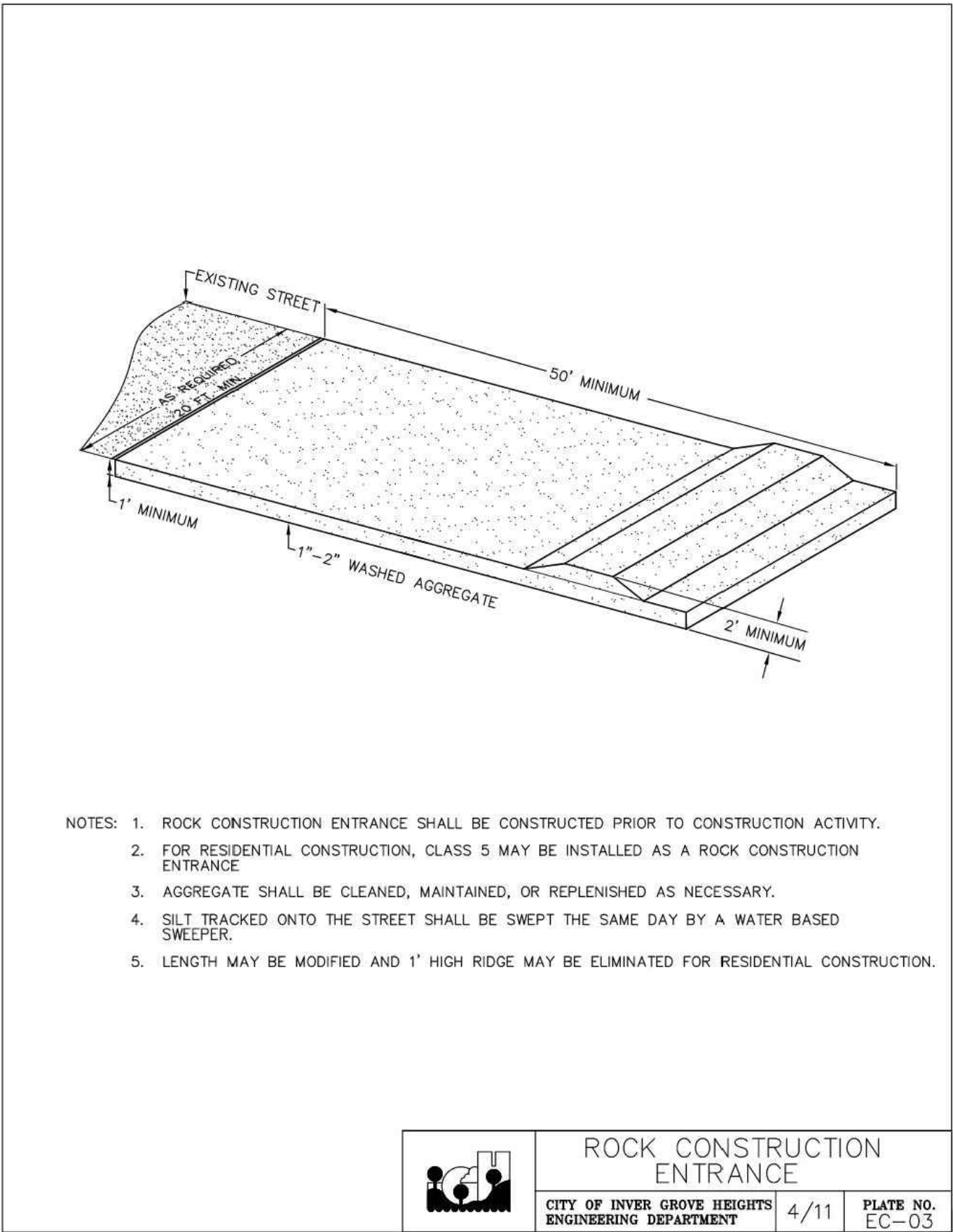
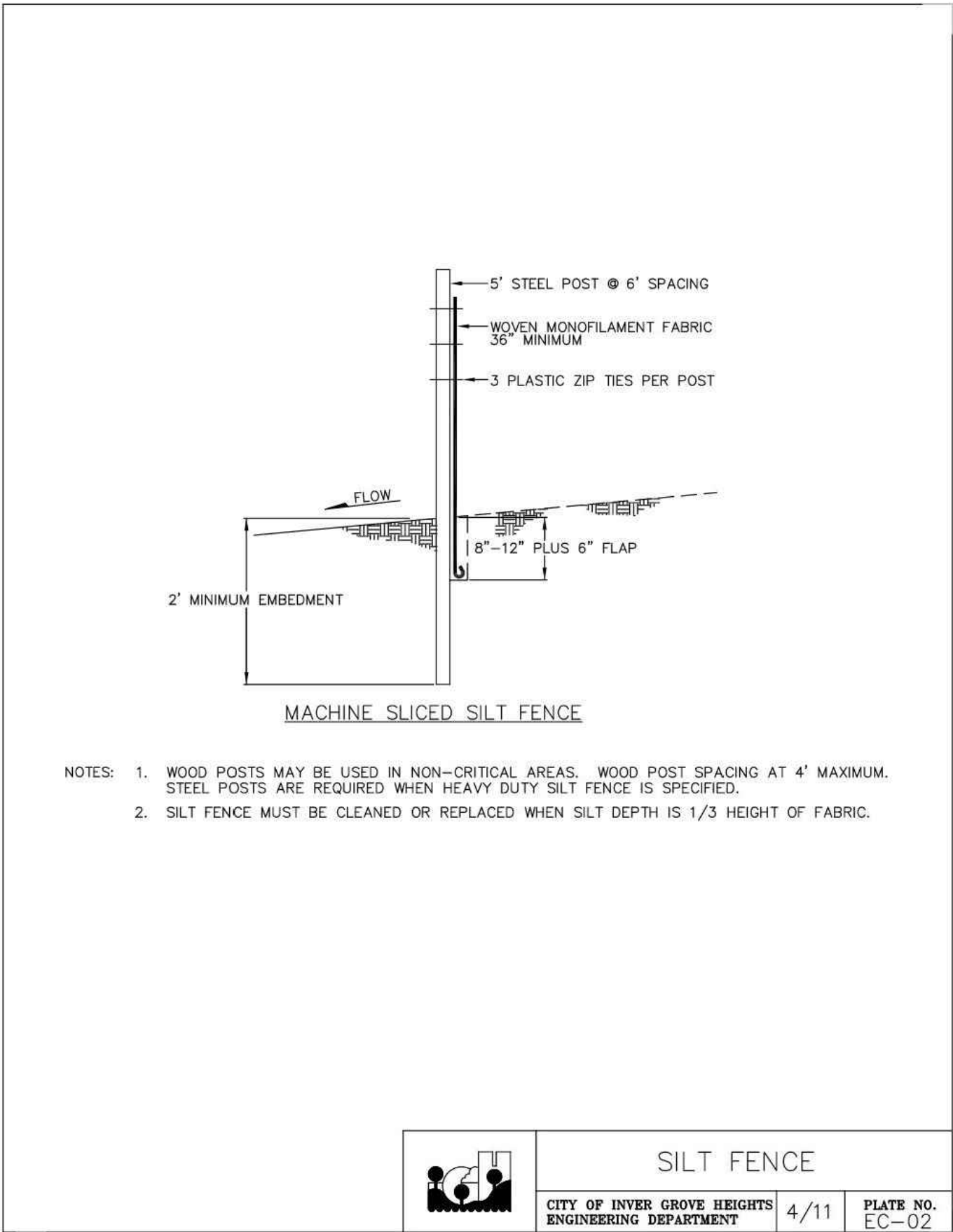
Date 8.12.22	Revision BID SET	By	HKGI Project No.: 021-002	I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly licensed Engineer under the laws of the State of Minnesota.
			Designed by: RJK	
			Drawn by: RJK	
			Checked By: JEA	
			44223	07.27.22
			Registration No.	Date

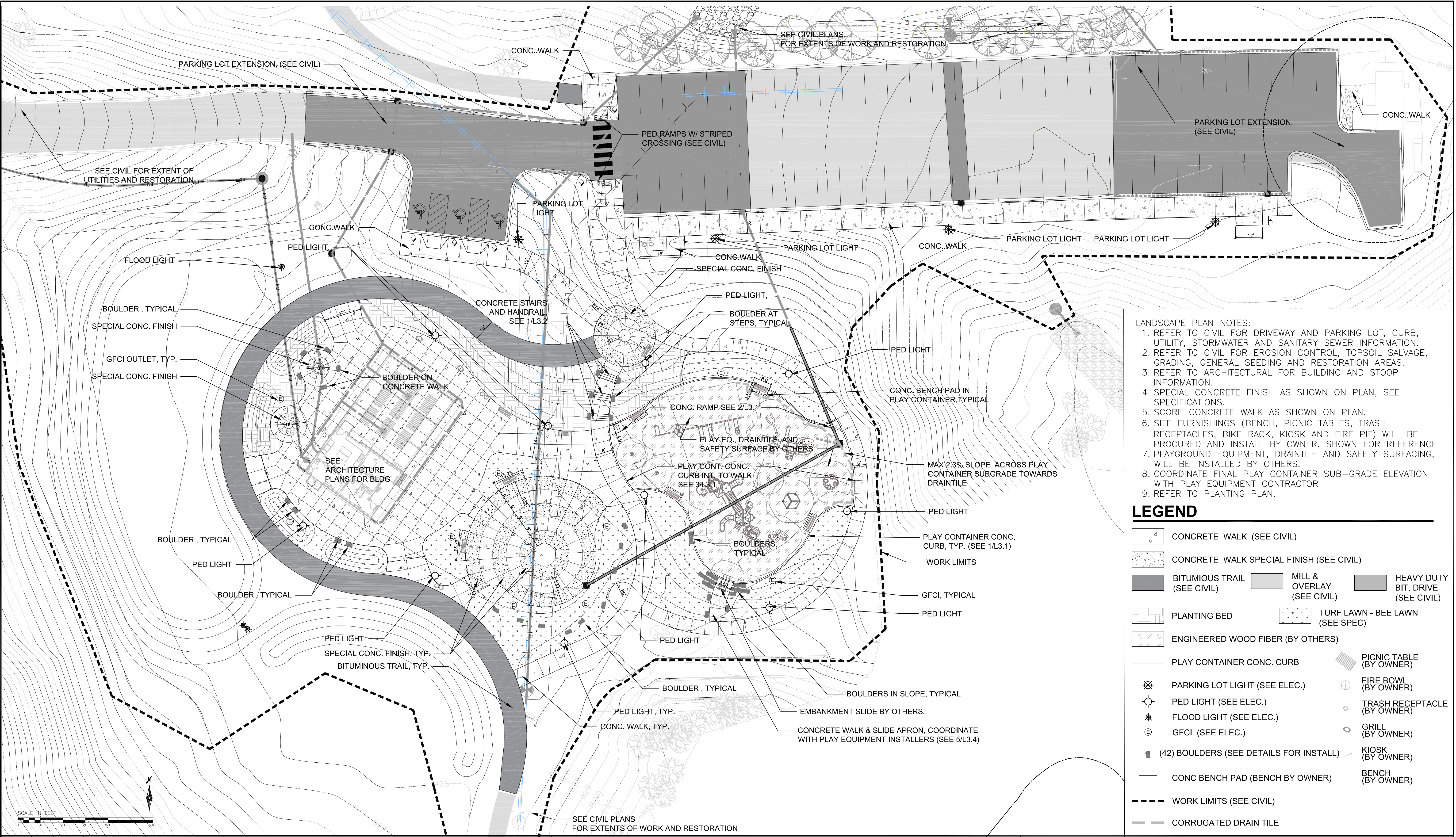
DESIGN TREE
engineering + land surveying
St. Cloud | Alexandria | Rogers
320-217-5557

Client:
INVER GROVE HEIGHTS,
MINNESOTA
CITY PROJ. # 2114

Project:
SOUTH VALLEY PARK PHASE 1 IMPROVEMENTS
INVER GROVE HEIGHTS, MINNESOTA
Sheet Title:
CIVIL DETAILS

SHEET
C7.3

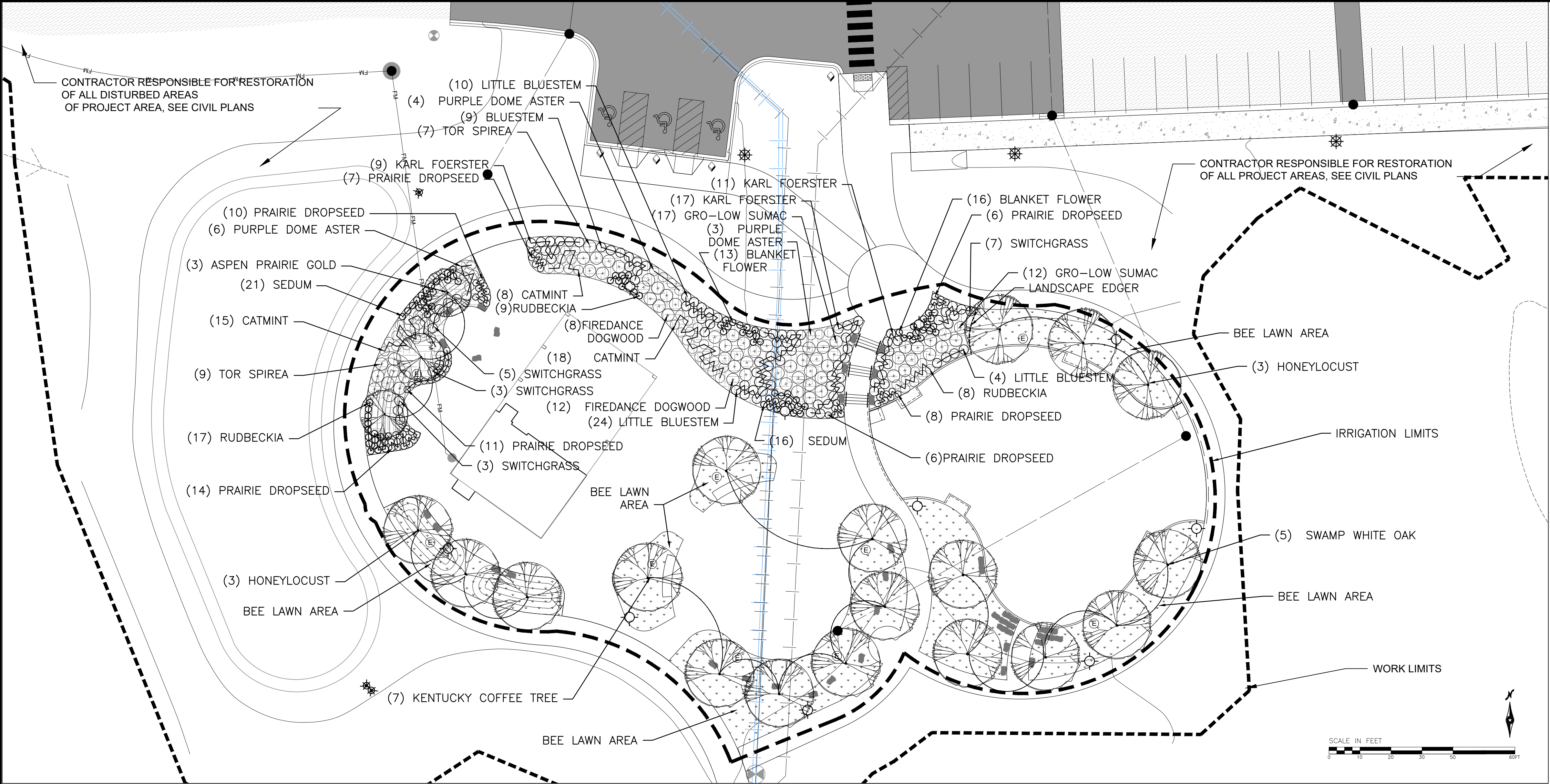




- LANDSCAPE PLAN NOTES:**
1. REFER TO CIVIL FOR DRIVEWAY AND PARKING LOT, CURB, UTILITY, STORMWATER AND SANITARY SEWER INFORMATION.
 2. REFER TO CIVIL FOR EROSION CONTROL, TOPSOIL SALVAGE, GRADING, GENERAL SEEDING AND RESTORATION AREAS.
 3. REFER TO ARCHITECTURAL FOR BUILDING AND STOOP INFORMATION.
 4. SPECIAL CONCRETE FINISH AS SHOWN ON PLAN, SEE SPECIFICATIONS.
 5. SCORE CONCRETE WALK AS SHOWN ON PLAN.
 6. SITE FURNISHINGS (BENCH, PICNIC TABLES, TRASH RECEPTACLES, BIKE RACK, KIOSK AND FIRE PIT) WILL BE PROCURED AND INSTALL BY OWNER. SHOWN FOR REFERENCE
 7. PLAYGROUND EQUIPMENT, DRAINTILE AND SAFETY SURFACING, WILL BE INSTALLED BY OTHERS.
 8. COORDINATE FINAL PLAY CONTAINER SUB-GRADE ELEVATION WITH PLAY EQUIPMENT CONTRACTOR
 9. REFER TO PLANTING PLAN.

LEGEND			
	CONCRETE WALK (SEE CIVIL)		CONCRETE WALK SPECIAL FINISH (SEE CIVIL)
	BITUMIOUS TRAIL (SEE CIVIL)		MILL & OVERLAY (SEE CIVIL)
	HEAVY DUTY BIT. DRIVE (SEE CIVIL)		PLANTING BED
	TURF LAWN - BEE LAWN (SEE SPEC)		ENGINEERED WOOD FIBER (BY OTHERS)
	PLAY CONTAINER CONC. CURB		PICNIC TABLE (BY OWNER)
	PARKING LOT LIGHT (SEE ELEC.)		FIRE BOWL (BY OWNER)
	PED LIGHT (SEE ELEC.)		TRASH RECEPTACLE (BY OWNER)
	FLOOD LIGHT (SEE ELEC.)		GRILL (BY OWNER)
	GFCI (SEE ELEC.)		KIOSK (BY OWNER)
	(42) BOULDERS (SEE DETAILS FOR INSTALL)		BENCH (BY OWNER)
	CONC BENCH PAD (BENCH BY OWNER)		
	WORK LIMITS (SEE CIVIL)		
	CORRUGATED DRAIN TILE		

Date 8.12.22	Revision BID SET	By	HKGI Project No.: 021-002	I hereby certify that this plan 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. Paul Paige, LA	Consultant: Landscape Architecture / Planning / Urban Design Minneapolis, Minnesota www.hkgi.com	Owner: INVER GROVE HEIGHTS, MINNESOTA CITY PROJ. # 2114	Project: SOUTH VALLEY PARK PHASE 1 IMPROVEMENTS INVER GROVE HEIGHTS, MINNESOTA	SHEET L1.1
			Designed by: JLR				Sheet Title: LANDSCAPE PLAN	
			Drawn by: TDS, AJB					
			Checked By: PP	23594 Registration No.	08.12.2022 Date			



- PLANTING AND IRRIGATION GENERAL NOTES:
- REFER TO CIVIL FOR REMOVALS, RESTORATION, EROSION CONTROL, SEEDING AND BLANKET, TOPSOIL SALVAGE AND GRADING.
 - REFER TO CIVIL FOR CURB, UTILITY, SANITARY SEWER AND STORMWATER INFORMATION.
 - REFER TO ARCHITECTURE FOR BUILDING INFORMATION.
 - COORDINATE WORK WITH SITE ELECTRICAL, IRRIGATION AND BOULDER INSTALLATION.
 - SHREDDED WOOD MULCH AT ALL PLANTING BEDS. PROVIDE SAMPLE OF MULCH TO BE APPROVED BY OWNER.
 - LANDSCAPE EDGER BETWEEN PLANTING BED AND TURF AS SHOWN ON PLANS.
 - SHREDDED HARDWOOD MULCH 3FT RINGS AROUND ALL TREES AND SHRUBS IN TURF AREAS.
 - STAKE AND VERIFY LAYOUT IN FIELD FOR LANDSCAPE ARCHITECT APPROVAL PRIOR TO BRINGING PLANT MATERIAL TO SITE.
 - IRRIGATION LIMITS: SPRAY HEADS AT TURF AREAS WITHIN WALK AND TRAIL PERIMETER. PLANTING BEDS TO RECEIVE NO IRRIGATION BUT INCLUDE A HOSE BID VALVE BOX IN CENTER PLANTING BED. SEE PERFORMANCE IRRIGATION SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 - SEE MECHANICAL PLANS FOR IRRIGATION WATER SOURCE IN BUILDING.
 - SEE SPECIFICATION SECTION 328400 PLANTING IRRIGATION, SECTION 329200 SEEDS AND LAWNS, AND SECTION 329300 EXTERIOR PLANTS,

PLANTING PLAN KEY

- DECIDUOUS TREE
- ORNAMENTAL TREE
- DECIDUOUS SHRUB
- PERENNIAL
- IRRIGATION LIMITS
- WORK LIMITS
- BEE LAWN MIX AREA (IRRIGATED)
- PLANTING BED (NO IRRIGATION, INCLUDE A HOSE BIB VALVE BOX IN CENTER BED)
- PARKING LOT LIGHT (SEE ELEC.)
- PED LIGHT (SEE ELEC.)
- FLOOD LIGHT (SEE ELEC.)
- GFCI (SEE ELEC.)
- (42) BOULDERS (SEE DETAILS FOR INSTALL)

PLANT SCHEDULE

TOTAL	QTY	COMMON NAME	SCIENTIFIC NAME	SIZE	CONT.	COMMENTS	MATURE SIZE
18	DECIDUOUS TREES						HEIGHT / WIDTH
	5	SWAMP WHITE OAK	Quercus alba	2.5" CAL	B&B	SINGLE STEM	50-60' / 40-50'
	6	HONEYLOCUST SUNBURST	Gleditsia triacanthos var. inermis 'Suncoke'	2.5" CAL	B&B	SINGLE STEM	35' / 30-35'
	7	KENTUCKY COFFEE TREE ESPRESSO	Gymnocladus dioica 'Espresso'	2.0" CAL	B&B	SINGLE STEM	
3	DECIDUOUS ORNAMENTAL TREES						HEIGHT / WIDTH
	3	ASPEN PRAIRIE GOLD	Populus tremuloides 'NEArb'	2.0" CAL	B&B	SINGLE STEM	30' / 15'
65	DECIDUOUS SHRUBS					TYP SPACE	HEIGHT / WIDTH
	16	TOR SPIREA	Spiraea betulifolia 'Tor'	NO. 5	CONT.	4FT O.C.	2-3' / 2-3'
	29	GRO-LOW SUMAC	Rhus aromatica 'Gro-Low'	NO. 5	CONT.	4FT O.C.	2' / 6'
	20	FIREDANCE DOGWOOD	Cornus sericea 'Balladine' (PPAF)	NO. 5	CONT.	4FT O.C.	3-4' / 4-5'
309	PERENNIALS						HEIGHT / WIDTH
	62	PRAIRIE DROPSEED	Sporobolus heterolepis	NO. 1	CONT.	2 FT O.C.	24" / 24"
	37	KARL FOERSTER	Calamagrostis x acutiflora 'Karl Foerster'	NO. 1	CONT.	2 FT O.C.	36" / 18"
	29	BLANKET FLOWER	Baillardia grandiflora 'Mesa Yellow'	NO. 1	CONT.	2 FT O.C.	15-18" / 16"
	37	AUTUMN FIRE SEDUM	Sedum x 'Autumn Fire'	NO. 1	CONT.	2 FT O.C.	18" / 18"
	41	CATMINT	Nepeta faassenii 'Kit Kat'	NO. 1	CONT.	2 FT O.C.	15-18" / 18-24"
	13	PURPLE DOME ASTER	Aster novae-angliae 'Purple Dome'	NO. 1	CONT.	3 FT O.C.	18" / 18-24"
	34	RUDBECKIA	Rudbeckia 'Goldsturm'	NO. 1	CONT.	3 FT O.C.	30" / 18"
	38	LITTLE BLUESTEM GRASS	Schizachyrium scoparium 'Minnblue A'	NO. 1	CONT.	3 FT O.C.	36-48" / 24-30"
	18	SWITCHGRASS RUBY RIBBONS	Panicum virgatum 'Ruby Ribbons'	NO. 1	CONT.	3 FT O.C.	36-48" / 24-30"

Date
8.12.22

Revision
BID SET

By

HKGI Project No.: 021-002

Designed by: JLR

Drawn by:TDS, AJB

Checked By: PP

I hereby certify that this plan 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.

Paul Paige, LA

23594
Registration No.

08.12.2022
Date

Consultant:

Landscape Architecture / Planning / Urban Design
Minneapolis, Minnesota
www.hkgi.com

Owner:

INVER GROVE HEIGHTS,
MINNESOTA
CITY PROJ. # 2114

Project:

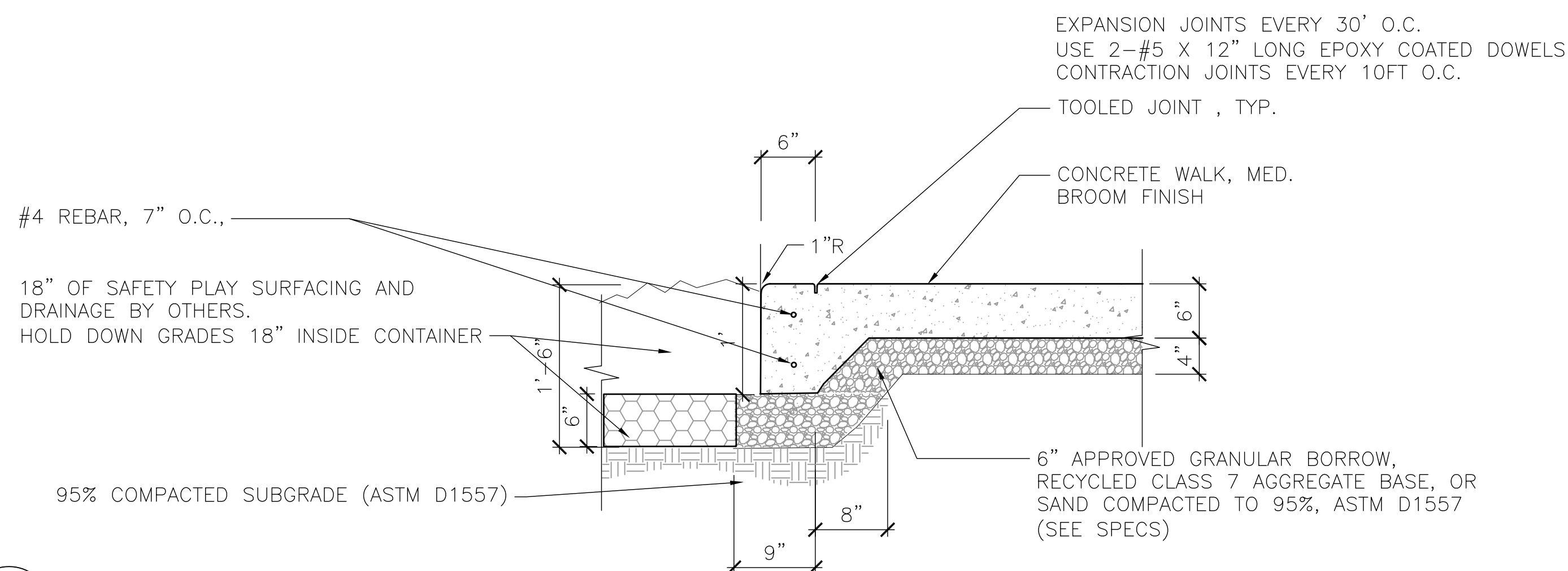
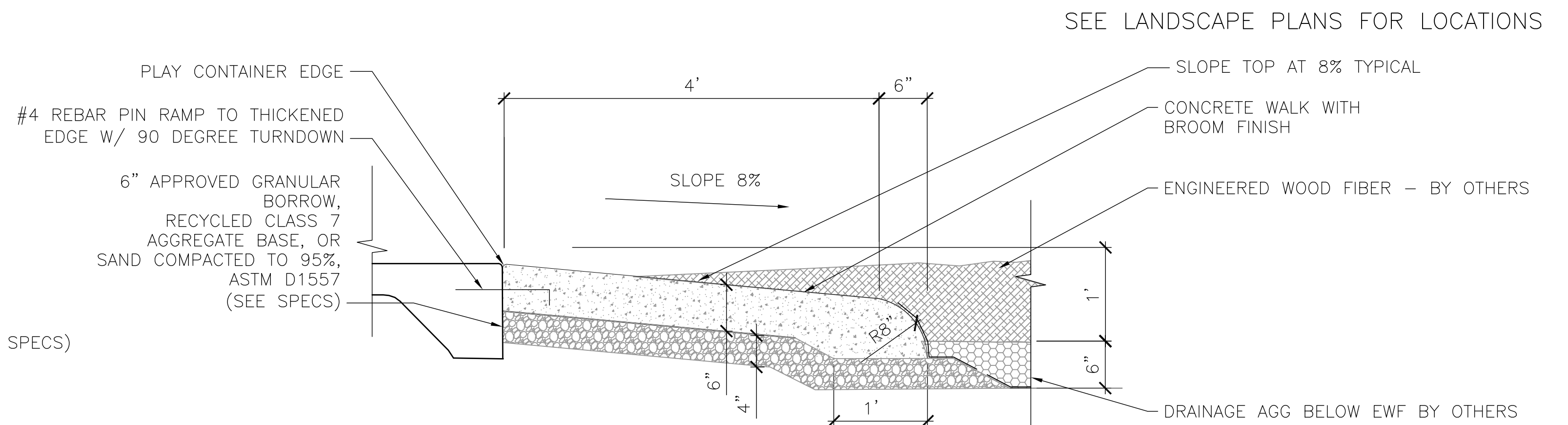
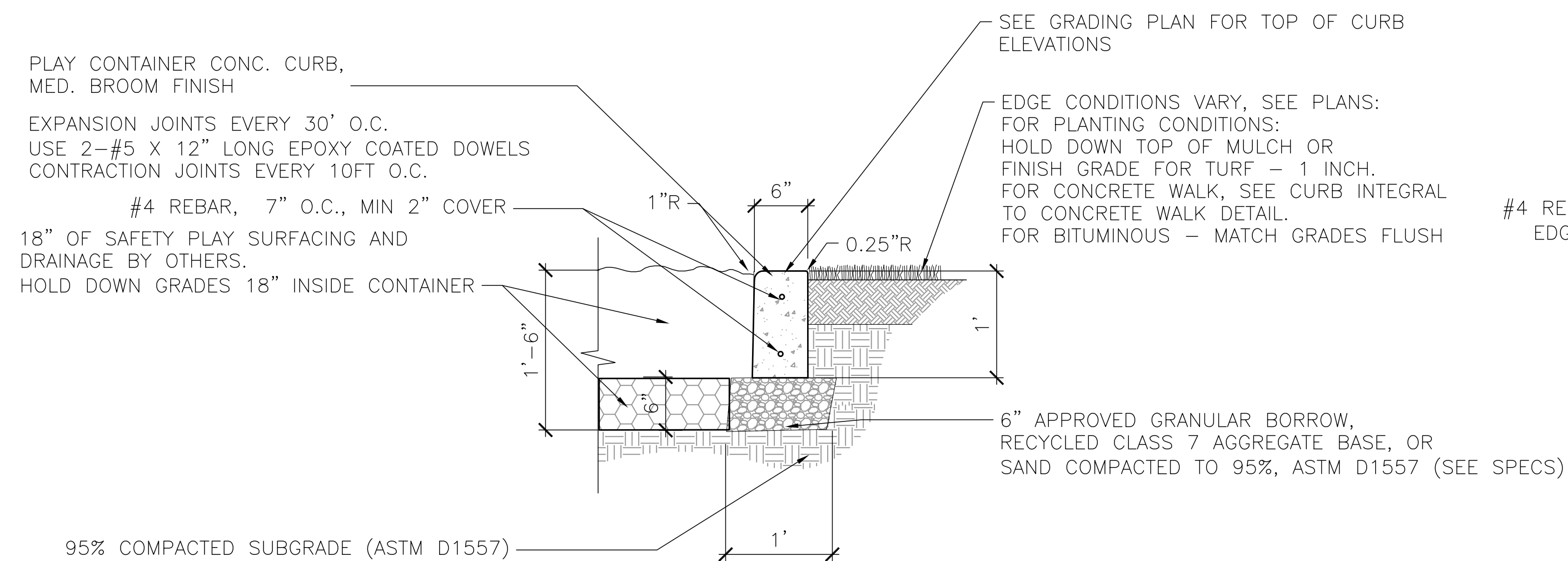
SOUTH VALLEY PARK PHASE 1 IMPROVEMENTS
INVER GROVE HEIGHTS, MINNESOTA

Sheet Title:

PLANTING PLAN

SHEET

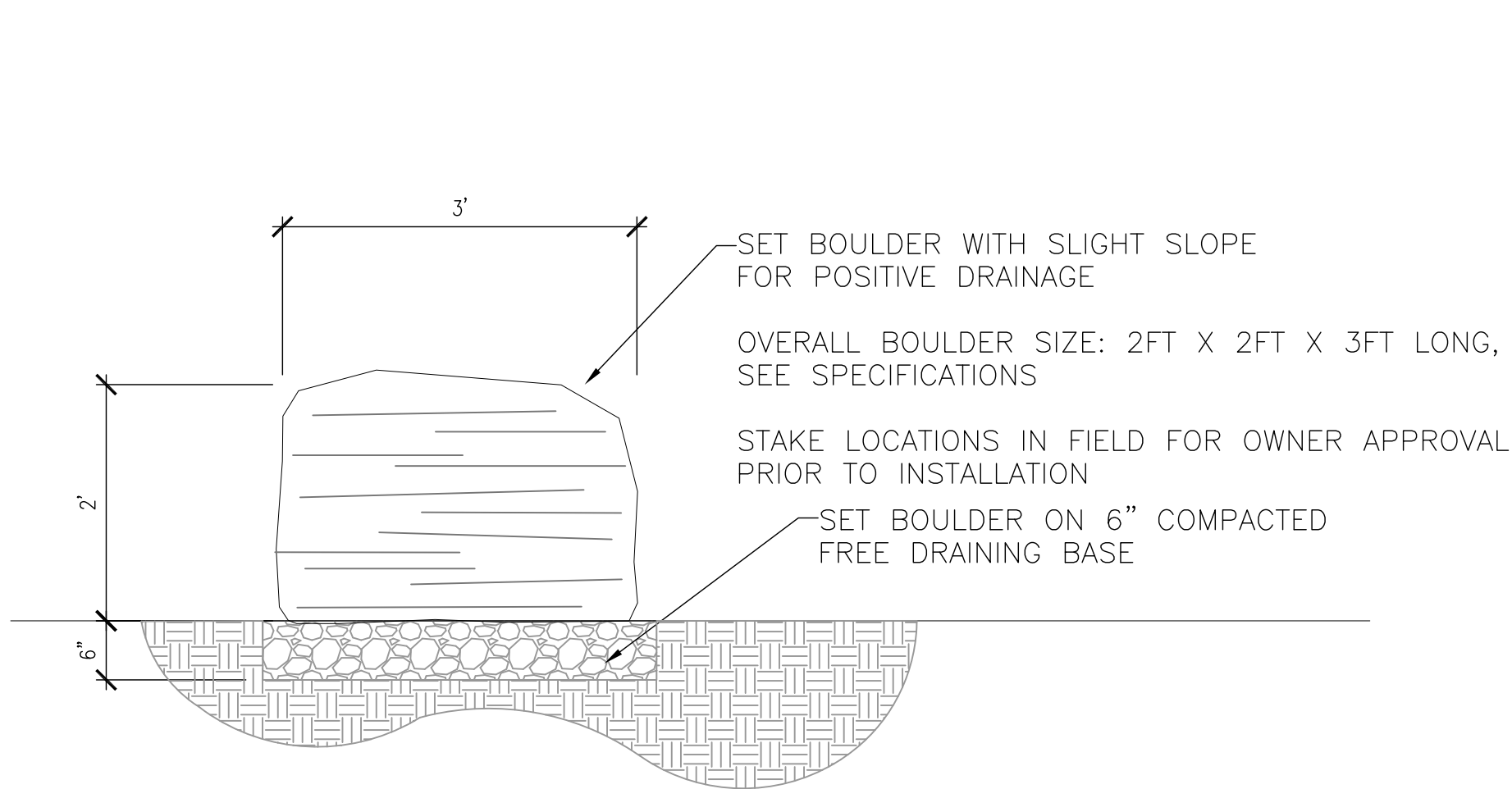
L2.1



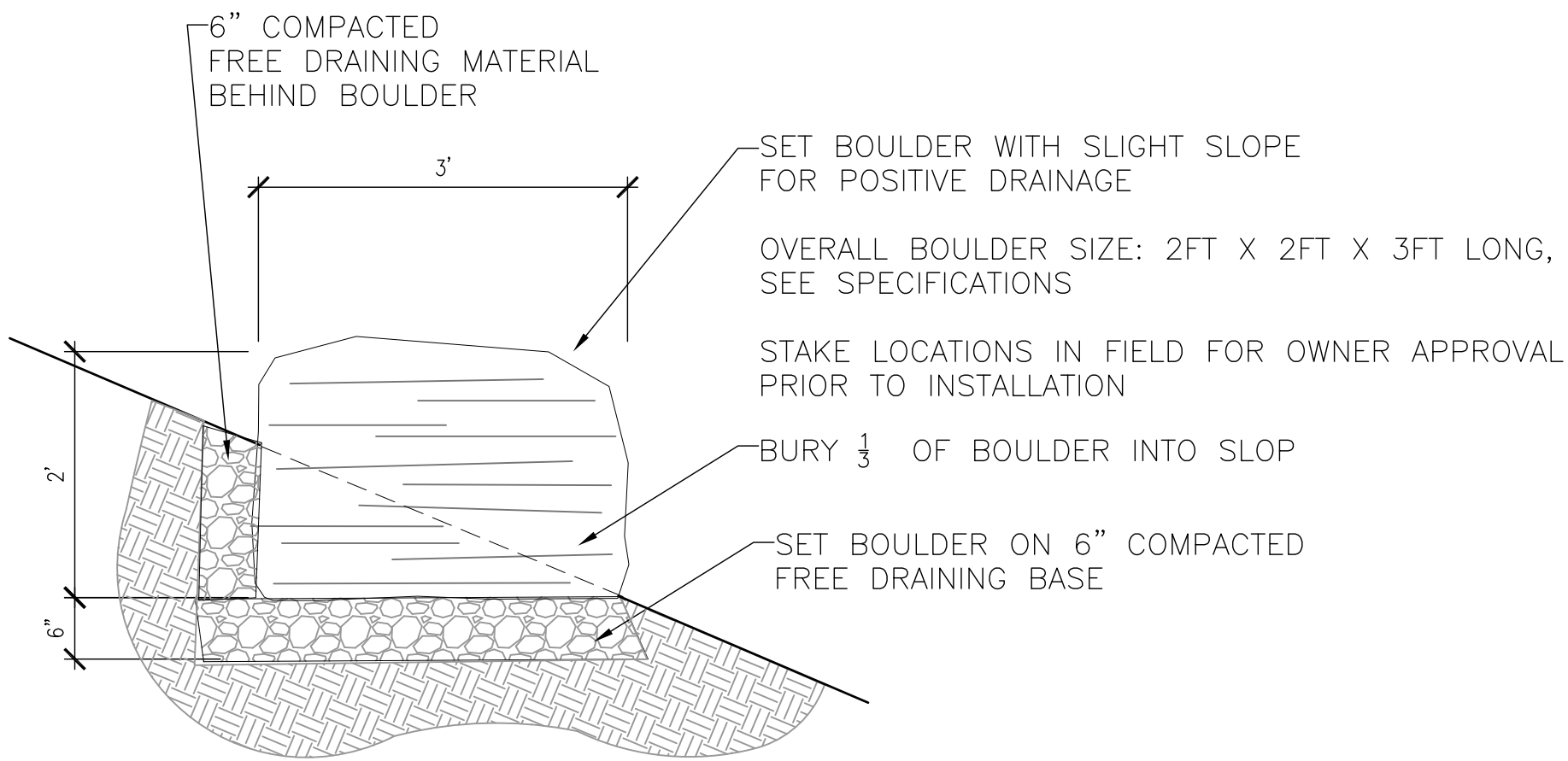
NOTE: SEE CIVIL DETAILS FOR BITUMINOUS
AND CONCRETE PAVEMENT DETAILS

Date 8.12.22	Revision BID SET	By	HKGI Project No.: 021—002	I hereby certify that this plan 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.	Consultant:	Owner:	Project:	SHEET	
			Designed by: JLR		 Landscape Architecture / Planning / Urban Design Minneapolis, Minnesota www.hkgi.com	INVER GROVE HEIGHTS, MINNESOTA CITY PROJ. # 2114	SOUTH VALLEY PARK PHASE 1 IMPROVEMENTS INVER GROVE HEIGHTS, MINNESOTA	L3.1	
			Drawn by:TDS, AJB	Paul Paige, LA			Sheet Title:		LANDSCAPE DETAILS
			Checked By: PP	23594 Registration No.			08.12.2022 Date		

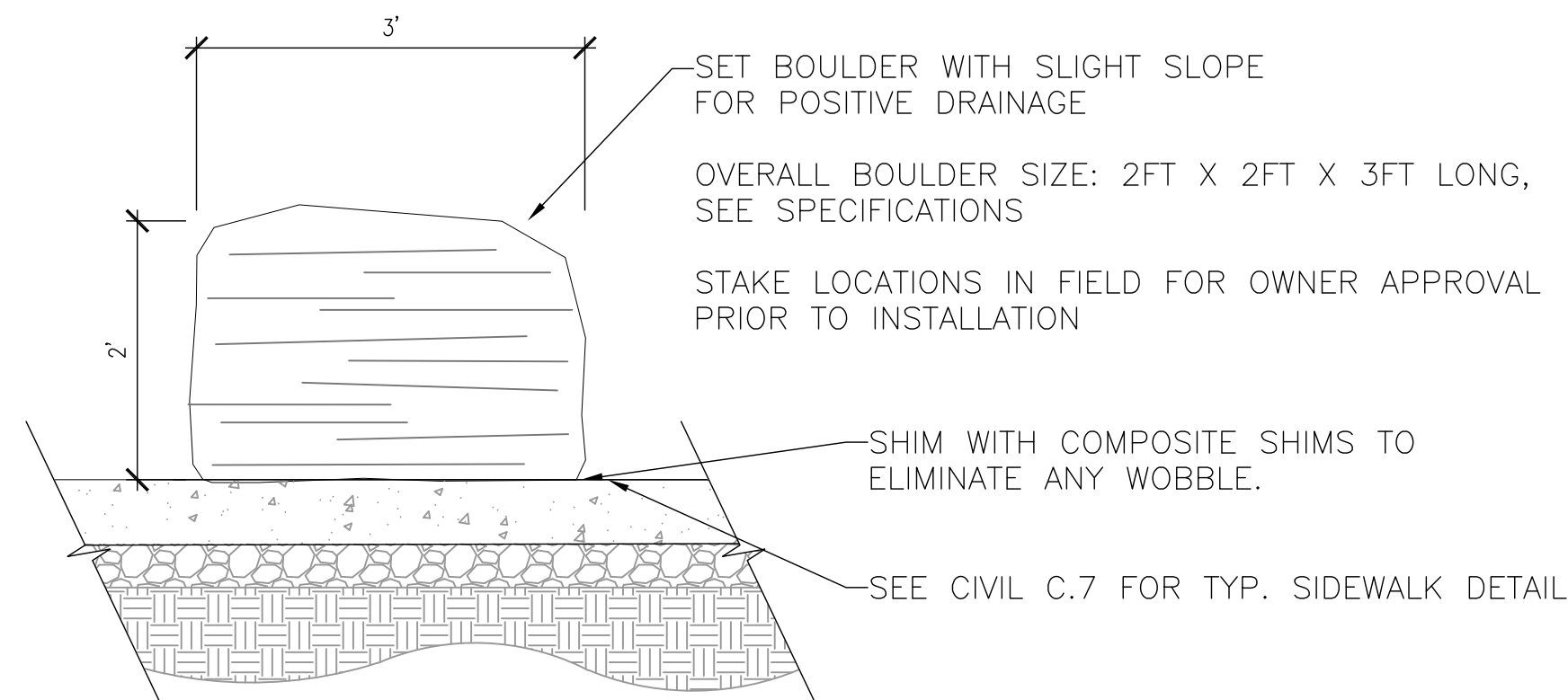




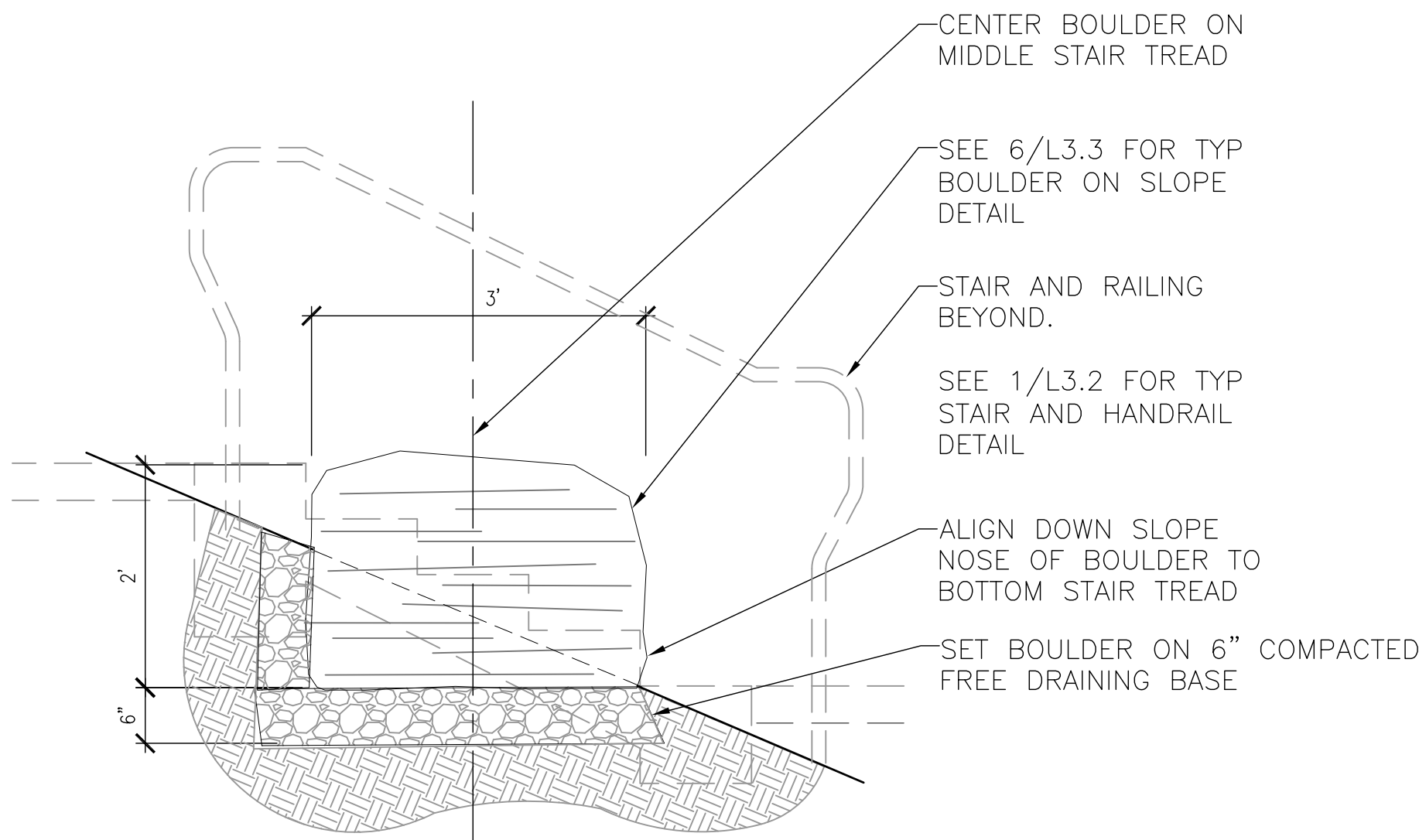
1
L3.4 BOULDER



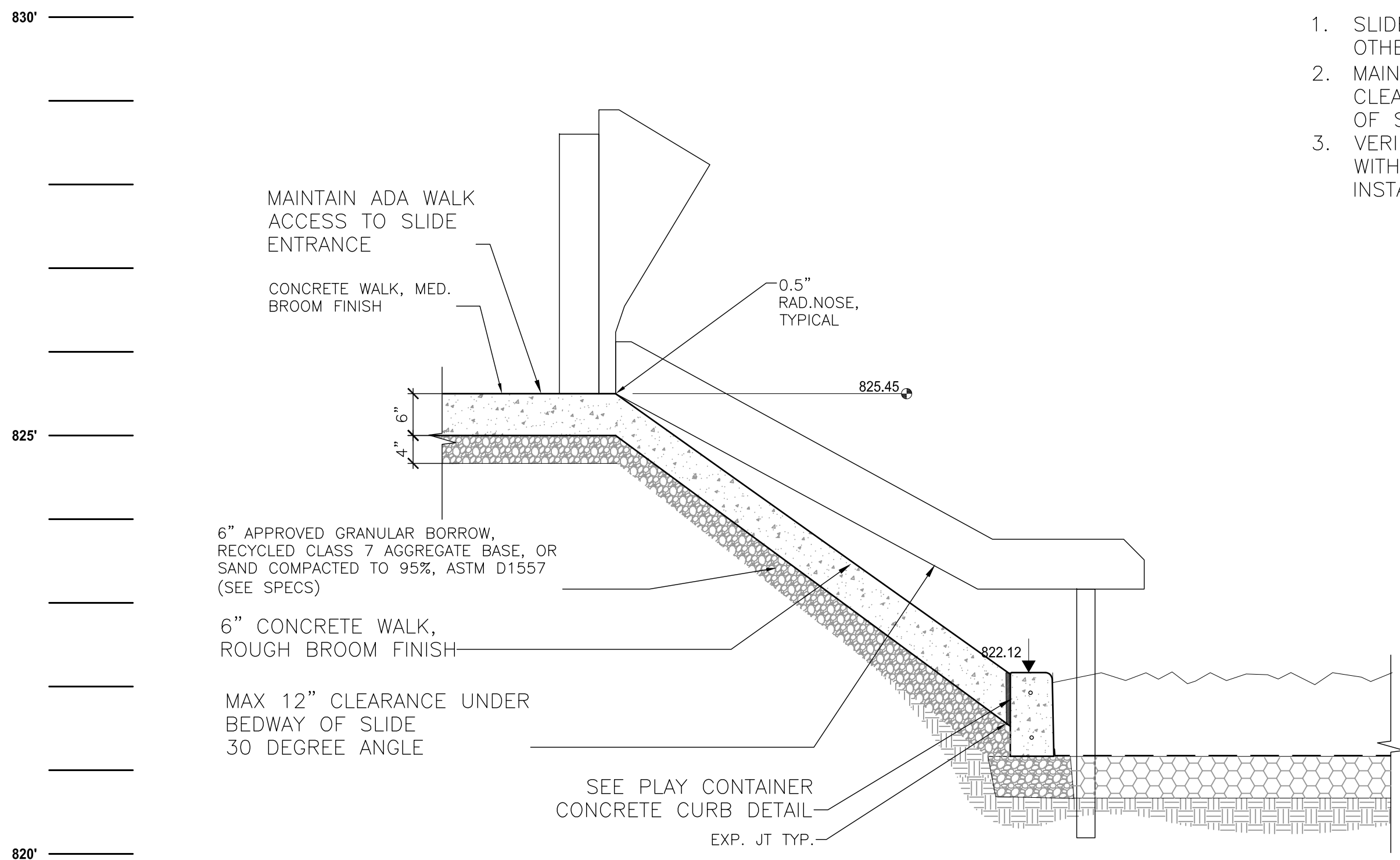
2
L3.4 BOULDER - IN SLOPE



3
L3.4 BOULDER - ON CONCRETE



4
L3.4 BOULDER - AT STAIR



5
L3.4 EMBANKMENT SLIDE AND CONCRETE APRON DETAIL

1. SLIDE INSTALLATION BY OTHERS
2. MAINTAIN 21" BOULDER CLEARANCE ON EITHER SIDE OF SLIDE
3. VERIFY FINAL ELEVATIONS WITH PLAY EQUIPMENT INSTALLERS

Date 8.12.22	Revision BID SET	By	HKGI Project No.: 021-002	I hereby certify that this plan 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.	Consultant:	Owner:	Project:	SHEET
			Designed by: JLR			INVER GROVE HEIGHTS, MINNESOTA	SOUTH VALLEY PARK PHASE 1 IMPROVEMENTS INVER GROVE HEIGHTS, MINNESOTA	L3.4
			Drawn by: TDS, AJB	Paul Paige, LA		CITY PROJ. # 2114	Sheet Title:	
			Checked By: PP	23594 Registration No.			LANDSCAPE DETAILS	
				08.12.2022 Date				

SOUTH VALLEY PARK

PHASE 1 IMPROVEMENTS

2810 70TH ST E, INVER GROVE HEIGHTS, MN 55076
ARCH. PROJECT NO. 21-07

OWNER:

CITY OF INVER GROVE HEIGHTS
8150 BARBARA AVENUE
INVER GROVE HEIGHTS, MN 55077
CONTACT:
email
(XXX) XXX.XXXX

ELECTRICAL ENGINEER:

PAULSON AND CLARK ENGINEERING
2352 E COUNTY RD J
WHITE BEAR LAKE, MN 55110
CONTACT: ANDREW TRIPP
atripp@paulsonclark.com
(651) 407.6056

PROJECT SUMMARY

THIS PROJECT IS A 2,300 SF PARK SHELTER OWNED AND OPERATED BY THE CITY OF INVER GROVE HEIGHTS, MINNESOTA. THE SCOPE OF THE PROJECT INCLUDES: TWO BATHROOMS, A KITCHEN, A COVERED SHELTER, AND A MECHANICAL SPACE. EXIT DISCHARGE AT GRADE FROM ENTIRE STRUCTURE.

INDEX:

GENERAL

G100 TITLE AND INDEX PAGE
G101 CODE PLAN
G102 GENERAL INFORMATION

ARCHITECTURAL

A101 FLOOR PLAN
A102 ROOF PLAN
A201 REFLECTED CEILING PLAN
A301 EXTERIOR ELEVATIONS
A302 EXTERIOR ELEVATIONS
A401 SHELTER SECTIONS
A402 WALL SECTIONS
A403 WALL SECTIONS
A404 WALL SECTIONS
A501 DETAILS
A502 DETAILS
A601 SCHEDULES
A701 INTERIOR ELEVATIONS

STRUCTURAL

S001 GENERAL NOTES
S002 GENERAL NOTES
S003 SPECIAL INSPECTIONS
S100 FOUNDATION PLAN
S101 CEILING FRAMING PLAN
S102 ROOF FRAMING PLAN
S200 ELEVATIONS
S201 ELEVATIONS
S300 DETAILS
S301 CMU WALL DETAILS

ARCHITECT:

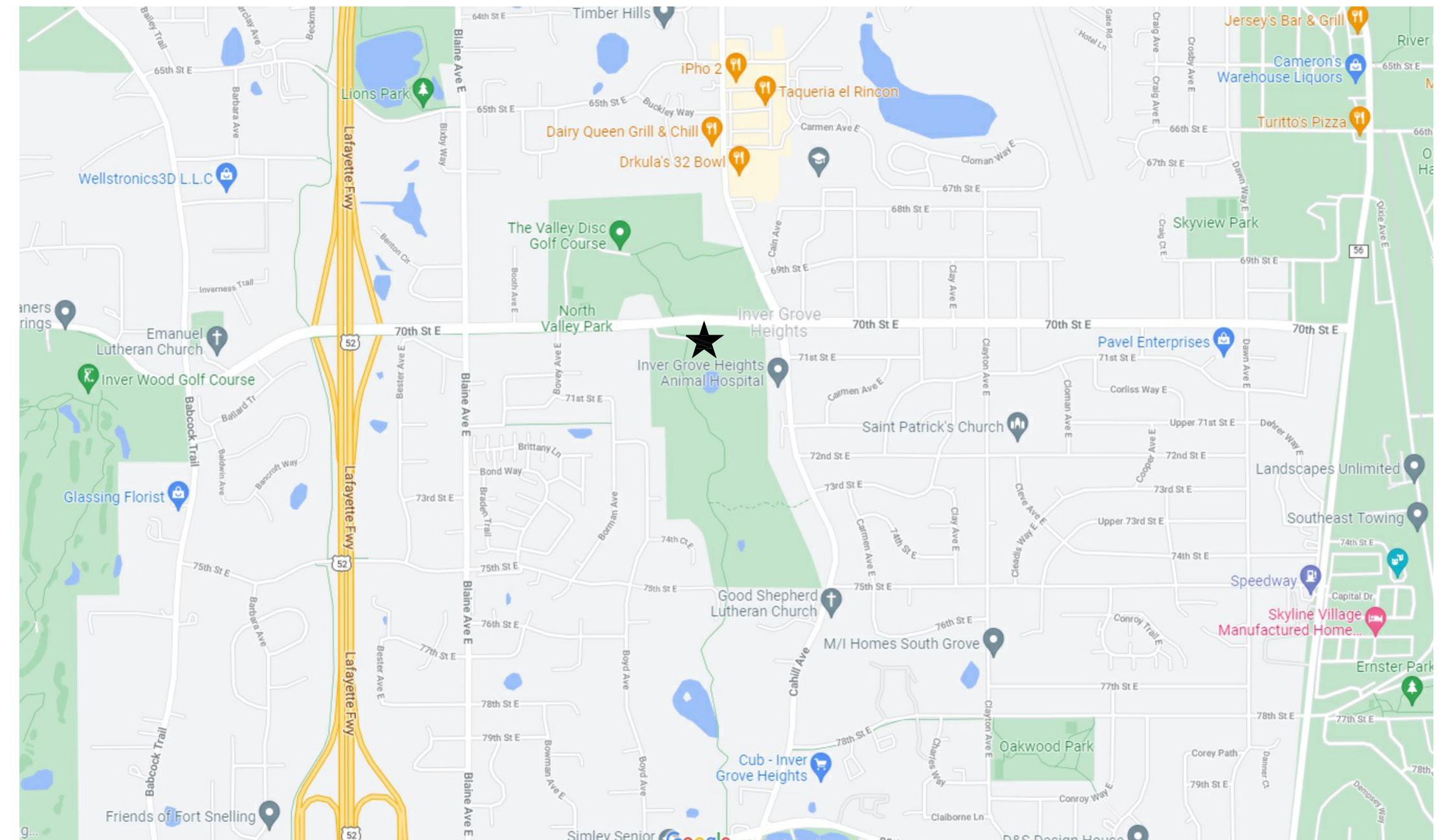
OERTEL ARCHITECTS
1795 ST. CLAIR AVENUE
ST. PAUL, MINNESOTA 55105
CONTACT: THOMAS STROMSODT
tstromsodt@oertelarchitects.com
(651) 696.5186

MECHANICAL ENGINEER

PAULSON AND CLARK ENGINEERING
2352 E COUNTY RD J
WHITE BEAR LAKE, MN 55110
CONTACT: TRAVIS WILLEMSEN
twillemseen@paulsonclark.com
(651) 407.6056

STRUCTURAL ENGINEER

PAULSON AND CLARK ENGINEERING
2352 E COUNTY RD J
WHITE BEAR LAKE, MN 55110
CONTACT: RICK MERSCH
rmersch@paulsonclark.com
(651) 407.6056



SITE PLAN

NTS



PERSPECTIVE

NTS



CONSULTANT:



OERTEL
ARCHITECTS

1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105

(651) 696-5186
www.oertelarchitects.com

REVISIONS / ISSUE

NO.	DATE	DESCRIPTION
0	08/12/22	BID SET

SOUTH VALLEY PARK
PHASE 1 IMPROVEMENTS

SOUTH VALLEY PARK
2810 70TH ST E
INVER GROVE HEIGHTS, MN 55076

PROJECT NAME:

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 ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

Signature

Thomas Stromsodt
Name

48038 08/12/2022
License # Date

PROJECT NUMBER: 21-07

DATE OF ISSUE: AUGUST 12, 2022

DRAWN BY: TRS/DCE

CHECKED BY: TRS

SHEET NAME:

TITLE AND INDEX

SHEET NO:

G100



CONSULTANT:



OERTEL
ARCHITECTS

1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105

(651) 696-5186
www.oertelarchitects.com

REVISIONS / ISSUE

NO.	DATE	DESCRIPTION
0	08/12/22	BID SET

PROJECT NAME:

SOUTH VALLEY PARK PHASE 1 IMPROVEMENTS

SOUTH VALLEY PARK
2810 70TH STE
INVER GROVE HEIGHTS, MN 55076

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 ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

Thomas Stromsodt
Signature

Thomas Stromsodt
Name

48038 08/12/2022
License # Date

PROJECT NUMBER: 21-07

DATE OF ISSUE: AUGUST 12, 2022

DRAWN BY: TRS/DCE

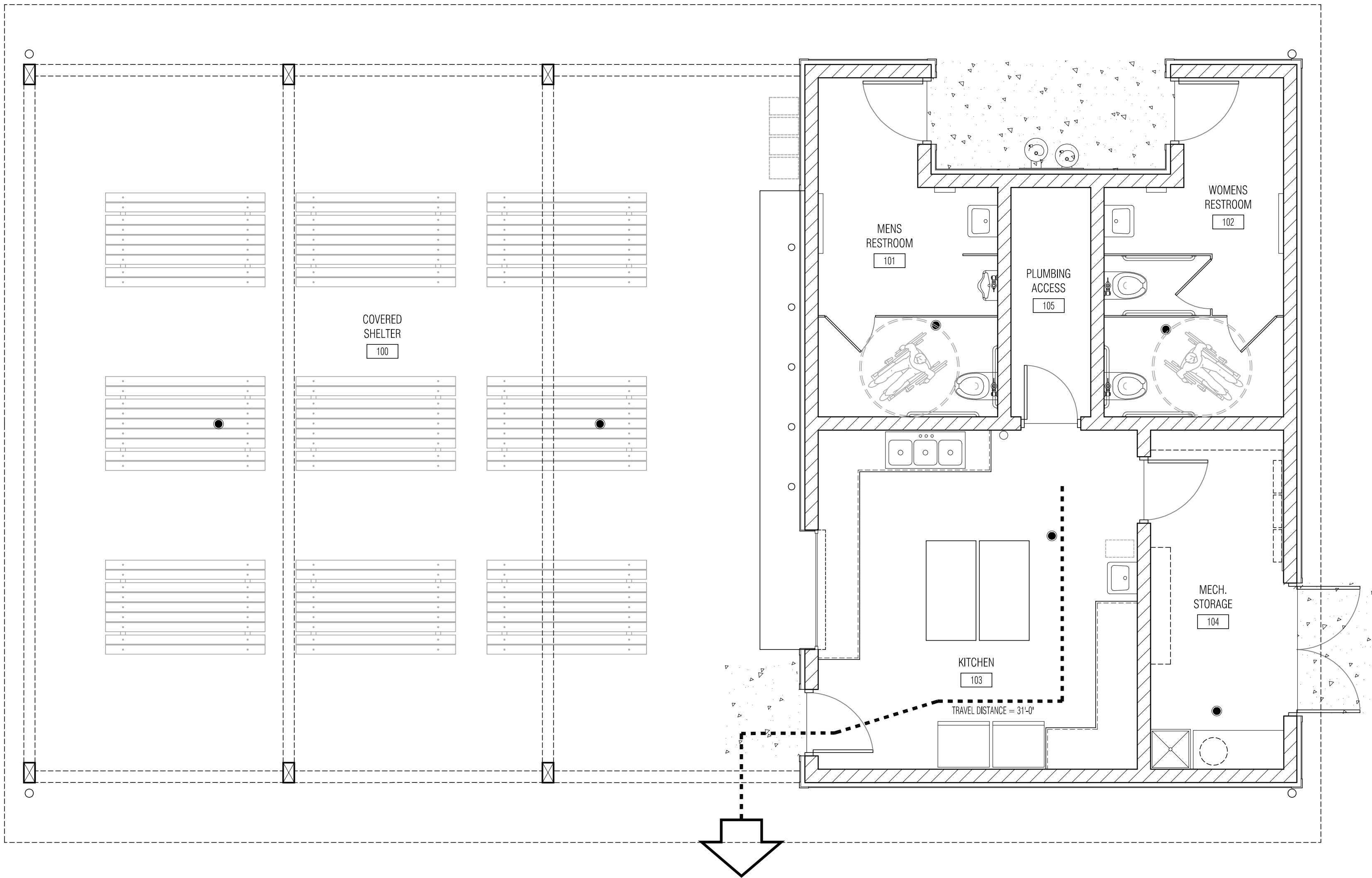
CHECKED BY: TRS

SHEET NAME:

CODE PLAN

SHEET NO:

G101



1 CODE PLAN

1/4" = 1'-0"



APPLICABLE CODES:

2020 I.B.C.
2020 MN STATE BLDG. CODE

OCCUPANCY:

A-3 ASSEMBLY - RECREATION

CONSTRUCTION TYPE:

TYPE V-B

FIRE-RESISTIVITY:

IBC TABLE 601 FOR TYPE V-B

STRUCTURAL FRAME
EXTERIOR BEARING WALLS
INTERIOR BEARING WALLS
EXTERIOR NONBEARING WALLS
INTERIOR NONBEARING WALLS
FLOOR CONSTRUCTION
ROOF CONSTRUCTION

0
0
0
0
0
0
0

FIRE RATING
FIRE RATING
FIRE RATING
FIRE RATING
FIRE RATING
FIRE RATING
FIRE RATING

IBC TABLE 602 FOR TYPE V-B

EXTERIOR WALLS

0

BUILDING IS GREATER THAN 30' FROM ALL PROPERTY LINES

ALLOWABLE SQUARE FOOTAGE:

ALLOWABLE

A-3 6,000 S.F. / BUILDING FOR V-B

PROPOSED

A-3 2,300 S.F.

ALLOWABLE BUILDING HEIGHT:

ALLOWABLE

A-3 40'-0" ABOVE GRADE PLANE / 1 STORY

PROPOSED

A-3 22'-10" ABOVE GRADE PLANE / 1 STORY

PLUMBING FIXTURES

OCCUPANT LOAD

COVERED PICNIC AREA = 1,329 S.F. / 15 = 89 occupants

KITCHEN AREA = 180 S.F. / 200 = 1 occupant

MECHANICAL/STORAGE = 230 S.F. / 300 = 1 occupant

TOTAL = 91 OCCUPANTS

WATER CLOSET

M: 45.5 / 75 = .6 = 1

PROVIDED 1 TOILET FIXTURE + 1 URINAL FIXTURE

W: 45.5 / 40 = 1.14 = 2

PROVIDE 2 TOILET FIXTURES

LAVATORY

M: 45.5 / 200 = 0.23 = 1

PROVIDED 1 LAVATORY

W: 45.5 / 150 = 0.30 = 1

PROVIDED 1 LAVATORY

DRINKING FOUNTAINS

91 / 1000 = 0.02 = 1 DRINKING FOUNTAINS

PROVIDED 2 DRINKING FOUNTAINS

1 HI EXTERIOR

1 LO EXTERIOR

SERVICE SINK

1 SERVICE SINK

PROVIDED 1 SERVICE SINK

1. THE DRAWINGS AND THE SPECIFICATIONS TOGETHER REPRESENT THE CONSTRUCTION DOCUMENTS AND, AS SUCH, MUST BE USED TOGETHER AS THE BASIS OF DESIGN. THE CONTRACTOR IS SPECIFICALLY INSTRUCTED NOT TO LIMIT THEIR UNDERSTANDING OF THE SCOPE OF THIS PROJECT BASED UPON THE SPECIFICATION OR DRAWING INDEX.
2. THE CONTRACTOR IS RESPONSIBLE TO REVIEW ALL INFORMATION IN BOTH THE DRAWINGS AND THE SPECIFICATION AND IS REQUIRED TO PROVIDE ALL DEFINED, AND REASONABLY IMPLIED, SCOPE OF WORK NO MATTER WHERE IT APPEARS IN THE CONSTRUCTION DOCUMENTS AS WELL AS ANY FORMALLY PROVIDED MODIFICATIONS, CLARIFICATIONS, ADDENDUMS AND/OR OTHER INFORMATION PERTAINING TO THE UNDERSTANDING OF THE SCOPE OF WORK.
3. REFER TO ALL DRAWINGS INCLUDING ARCHITECTURAL, SITE, STRUCTURAL, FIRE PROTECTION, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS AND SYMBOLS.
4. ALL DRAWINGS ARE OF EQUAL IMPORTANCE IN DEFINING THE WORK OF THE CONTRACT DOCUMENTS. CONTRACTORS SHALL REVIEW ALL DRAWINGS BEFORE THE INSTALLATION OF THE WORK. SHOULD THERE BE A DISCREPANCY WITHIN AND BETWEEN THE DRAWINGS THAT WOULD CAUSE AN AWKWARD OR IMPROPER INSTALLATION, NOTIFY ARCHITECT FOR CLARIFICATION PRIOR TO INSTALLATION OF SAID WORK.
5. DO NOT SCALE DRAWING. THE DRAWINGS ARE NOT NECESSARILY TO SCALE - USE GIVEN DIMENSIONS. CONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO THE START OF CONSTRUCTION. IF DISCREPANCIES ARE FOUND, NOTIFY ARCHITECT FOR CLARIFICATION BEFORE COMMENCING WORK.
6. ALL EXTERIOR DIMENSIONS ARE GIVEN FROM THE EXTERIOR FACE OF MASONRY WALLS. INTERIOR DIMENSIONS ARE GIVEN TO FINISH FACE OF WALL. ALL WALL AND PARTITION THICKNESS ARE NOMINAL. SEE WALL SECTIONS AND PARTITION TYPES FOR EXACT CONSTRUCTION.
7. ALL FIRE PROTECTION, MECHANICAL, ELECTRICAL AND PLUMBING PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE SLEEVED AND FIRESAFED AND/OR HAVE FIRE DAMPERS EQUIVALENT TO THE HOURLY FIRE RATING OF THE CONSTRUCTION. FIRE RATINGS WILL BE IDENTIFIED WITHIN THESE DOCUMENTS.
8. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE SHOWN. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT ARCHITECT BEFORE PROCEEDING WITH THE WORK.
9. CONTRACTORS SHALL PROVIDE STIFFENERS, BRACINGS, BACKING PLATES AND SUPPORTING BRACKETS REQUIRED FOR THE PROPER INSTALLATION OF ALL CASEWORK, AND MISCELLANEOUS EQUIPMENT WHETHER SUCH SUPPORTS ARE SHOWN OR NOT.
10. INSTALL ALL RECESSED CABINETS, PANELS, BOXES LOCATED IN FIRE RATED PARTITIONS TO MAINTAIN THE FIRE RATED CONSTRUCTION.
11. GC SHALL COORDINATE ALL FIRE PROTECTION, MECHANICAL, PLUMBING AND ELECTRICAL, FLOOR, ROOF AND WALL SLEEVES AND SHAFTS WITH MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, STRUCTURAL AND ARCHITECTURAL DRAWINGS.
12. REFER TO PROJECT MANUAL AND TECHNICAL SPECIFICATION TO SUPPLEMENT THESE DRAWINGS.

	ENLARGED DETAIL SYMBOL		EXTERIOR ELEVATION SYMBOL
	SECTION CUT SYMBOL		WALL TYPE
	ELEVATION SYMBOL		WINDOW TYPE
	GRID LINE SYMBOL		KEYNOTE
	INTERIOR ELEVATION SYMBOL		REVISION SYMBOL

ABV	ABOVE
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT / ARCHITECTURAL
BD	BOARD
BO	BOTTOM OF
BOT	BOTTOM
CIP	CAST IN PLACE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CPT	CARPET
DEMO	DEMOLISH
DF	DRINKING FOUNTAIN
DIV	DIVIDE/DIVISION
DWG	DRAWING
EAS	EACH
EAF	EXTERIOR INSULATED FINISH SYSTEM
ELEC	ELECTRIC / ELECTRICAL
ENG	ENGINEER
EQP	EQUIPMENT
FDC	FIRE DEPARTMENT CONNECTION
FF	FINISH FLOOR
FFE	FINISH FLOOR ELEVATION
FIN	FINISH/FINISHED
FO	FACE OF
FRP	FIBER REINFORCED PANEL
GA	GAUGE
GYP	GYPSUM
GYP BD	GYPSUM BOARD
HDW	HARDWARE
HDWD	HARDWOOD
ID	INSIDE DIAMETER / DIMENSION

REVISIONS / ISSUE	
NO.	DATE DESCRIPTION
0	08/12/22 BID SET

**SOUTH VALLEY PARK
PHASE 1 IMPROVEMENTS**

SOUTH VALLEY PARK
2810 70TH ST E
INVER GROVE HEIGHTS, MN 55076

PROJECT NAME:

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 ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

Signature

Thomas Stromsodt

Name

48038	08/12/2022
License #	Date

PROJECT NUMBER: 21-07

DATE OF ISSUE: AUGUST 12, 2022

DRAWN BY: _____ TRS/DCE

CHECKED BY: _____ TRS _____

QUEST NAME _____

SHEET NO:



CONSULTANT:



OERTEL
ARCHITECTS

1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105

(651) 696-5186
www.oertelarchitects.com

REVISIONS / ISSUE

NO. DATE DESCRIPTION

0 08/12/22 BID SET

SOUTH VALLEY PARK PHASE 1 IMPROVEMENTS

SOUTH VALLEY PARK
2810 70TH ST E
INVER GROVE HEIGHTS, MN 55076

PROJECT NAME:

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 ARCHITECT
UNDER THE LAWS OF THE STATE OF
MINNESOTA.

Thomas Stromsodt
Signature

Thomas Stromsodt

Name

48038

08/12/2022

License #

Date

PROJECT NUMBER:

21-07

DATE OF ISSUE:

AUGUST 12, 2022

DRAWN BY:

TRS/DCE

CHECKED BY:

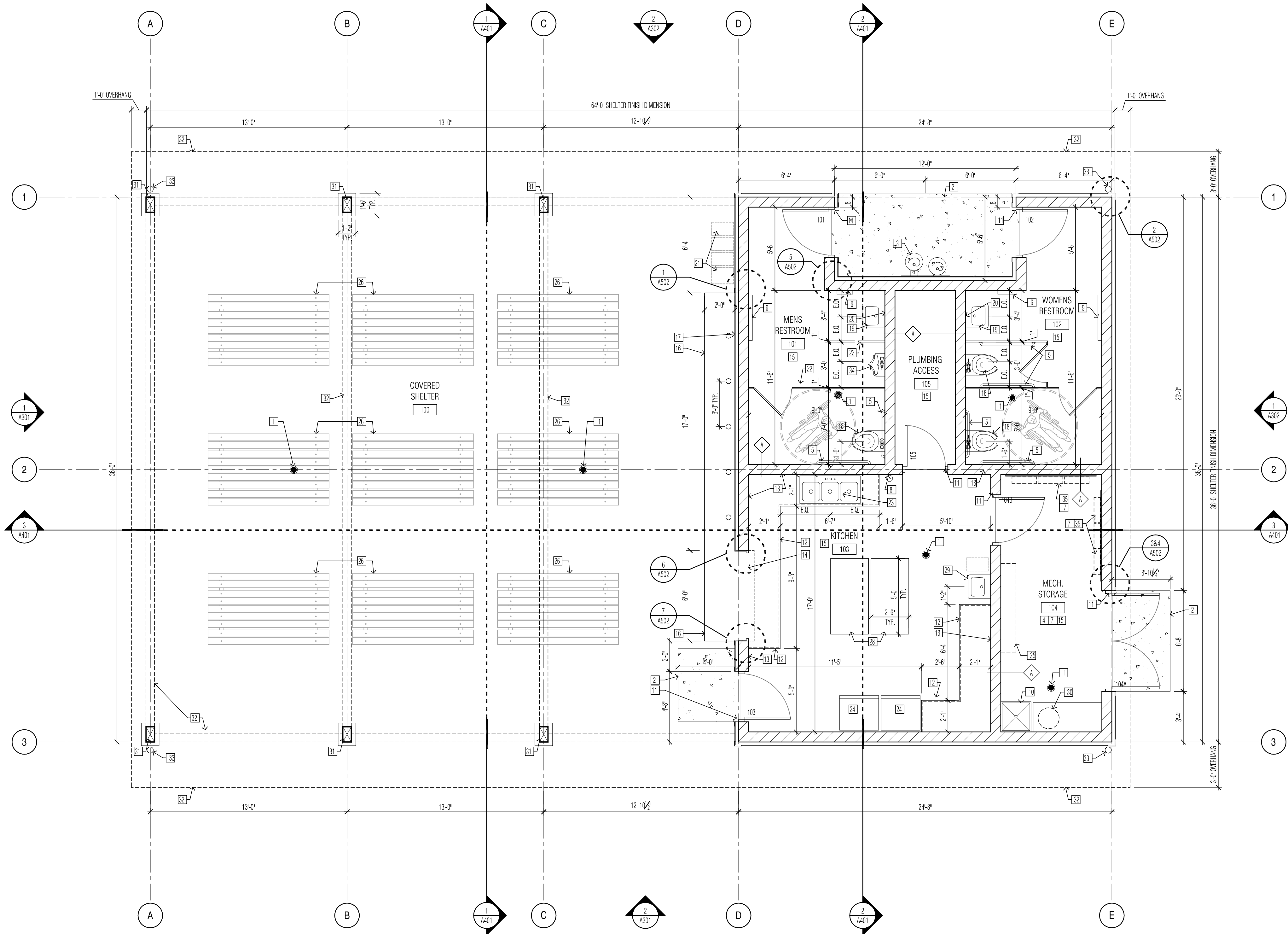
TRS

SHEET NAME:

FLOOR PLAN

SHEET NO:

A101



FLOOR PLAN NOTES:

- AREA DRAIN. AT RESTROOM LOCATIONS SLOPE ENTIRE FLOOR TO DRAIN. AT ALL OTHER LOCATIONS PROVIDE 2'-0" DIAMETER PITCH POCKET AROUND DRAIN - SEE MECH.
- REINF. CONCRETE STOOP - SEE STRUCTURAL.
- WALL MOUNTED DUAL HEIGHT, ACCESSIBLE WATER COOLER - SEE MECH. INSTALL PER MN STATE ACCESSIBILITY CODE, SECTION 1341.
- PROVIDE 4" HIGH CONC. HOUSEKEEPING PAD FOR ALL MECHANICAL EQUIPMENT - VERIFY ACTUAL SIZE BASED ON MECHANICAL EQUIPMENT SUBMITTALS.
- PROVIDE GRAB BARS PER MN STATE ACCESSIBILITY CODE - SECTION 1341.
- ELECTRIC HAND DRYERS (4" MAX. PROJECTION PER ADA) - SEE ELECTRICAL.
- PROVIDE (86) SQUARE FEET OF 3/4" PLYWOOD BACKER @ WALLS FOR MOUNTING OF EQUIPMENT AS REQUIRED - VERIFY LOCATION IN FIELD WITH SUPPLIERS (PAINT).
- WALL MOUNTED FIRE EXTINGUISHER.
- WALL MOUNTED INFANT CHANGING STATION PER MN STATE ACCESSIBILITY CODE (4" MAX. PROJECTION PER ADA).
- UTILITY FLOOR SINK w/ FPP SURROUND UP TO 48" ABOVE FINISHED FLOOR @ (2) SIDES.
- H.M. DOOR AND FRAME, PAINT - SEE DOOR SCHEDULE FOR MORE INFORMATION.
- SOLID SURFACE COUNTER AND BACK SPLASH WITH PLAM. BASE CABINETS.
- EXPOSED BURNISHED BLOCK WALL FINISH.
- INSULATED STAINLESS STEEL ROLL UP SERVICE COUNTER DOOR.
- INSULATED CONCRETE SLAB ON GRADE WITH IN-FLOOR HEAT, SEE FINISH SCHEDULE FOR FLOOR FINISH - SEE STRUCTURAL AND MECH. FOR MORE INFORMATION.
- SOLID SURFACE COUNTERTOP WITH CONCEALED MTL. BRACKETS AND 2" DIA. CORD DROPS.
- PREFINISHED RIBBED STEEL SIDING ACCENT BEHIND SERVING COUNTER - SEE INTERIOR ELEVATIONS.
- FLOOR MOUNTED TOILET FIXTURE - SEE MECH.
- WALL MOUNTED PORCELAIN SINK WITH ADA COMPLIANT PIPE PROTECTION.
- 2' x 3' MIRROR WITH STAINLESS STEEL FRAME.
- RECYCLING BIN SPACE.
- REFINISHED TOILET STALL PARTITIONS AND URINAL DIVIDER.
- 3 COMPARTMENT DROP IN STAINLESS STEEL SINK.
- (2) OWNER PROVIDED REFRIGERATORS (SHOWN FOR REFERENCE ONLY).
- (3) HEAVY-DUTY PLYWOOD SHELVES WITH ADJUSTABLE TRACK SYSTEM - BY CONTRACTOR.
- OWNER PROVIDED PICNIC TABLES (SHOWN FOR REFERENCE ONLY).
- PRE-FINISHED MTL. DOWNSPOUT.
- STAINLESS STEEL MOBILE ISLAND COUNTER WITH SHELF STORAGE BELOW - BY CONTRACTOR.
- WALL MOUNTED STAINLESS STEEL SINK WITH ADA COMPLIANT PIPE PROTECTION.
- WATER HEATER - SEE MECH.
- EXPOSED PREFINISHED ARCHITECTURAL GLULAM FRAMES - SEE STRUCTURAL.
- DASHED LINE INDICATES ROOF/GLULAM FRAME ABOVE.
- GALVANIZED MTL. DOWNSPOUTS, PAINT.
- WALL MOUNTED URINAL FIXTURE - SEE MECH.
- SHELTER CONTROLS - SEE MECH. AND ELEC.

1 FLOOR PLAN

1/4" = 1'-0"

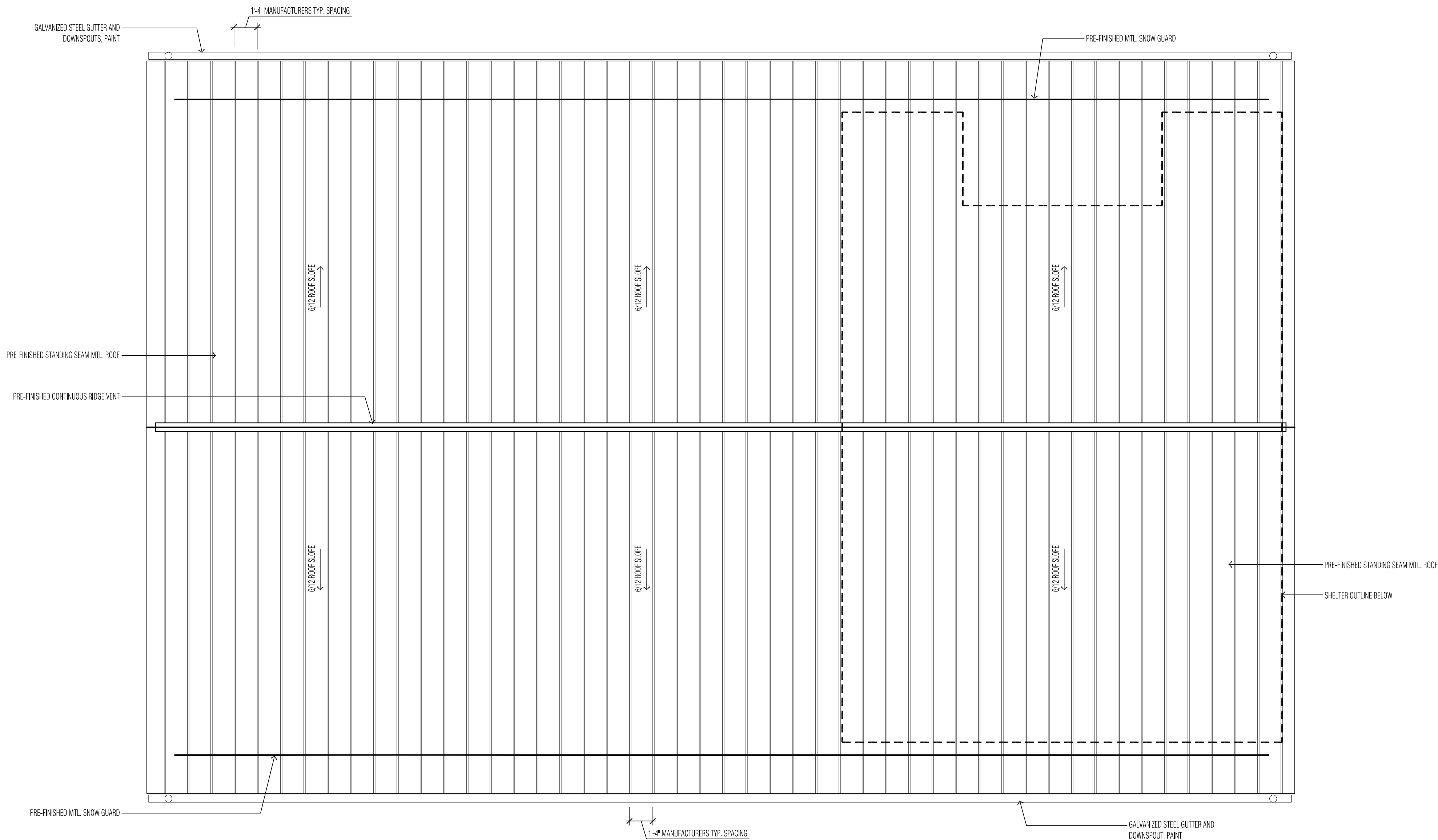


WALL TYPES:

- 8" C.M.U. - PROVIDE BURNISHED BLOCK FINISH IN KITCHEN AND RESTROOM AREAS. ALL OTHER ROOMS CAN BE STANDARD GRAY BLOCK PAINTED.

NOTE:

- ALL WALLS ARE FULL-HEIGHT, TO UNDERSIDE OF CEILING.
- TYP. WALL DIMENSIONS ARE TO FACE OF BLOCK.
- PROVIDE MOISTURE RESISTANT GYP. BOARD AT RESTROOMS AND KITCHEN.



1

ROOF PLAN

1/4" = 1'-0"



CONSULTANT:



OERTEL
ARCHITECTS

1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105

(651) 696-5186
www.oertelarchitects.com

REVISIONS / ISSUE

NO.	DATE	DESCRIPTION
0	08/12/22	BID SET

PROJECT NAME:

SOUTH VALLEY PARK
PHASE 1 IMPROVEMENTS

SOUTH VALLEY PARK
2810 70TH ST E
INVER GROVE HEIGHTS, MN 55076

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 ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

Thomas Stromsodt
Signature

Thomas Stromsodt
Name

48038 08/12/2022
License # Date

PROJECT NUMBER: 21-07

DATE OF ISSUE: AUGUST 12, 2022

DRAWN BY: TRS/DCE

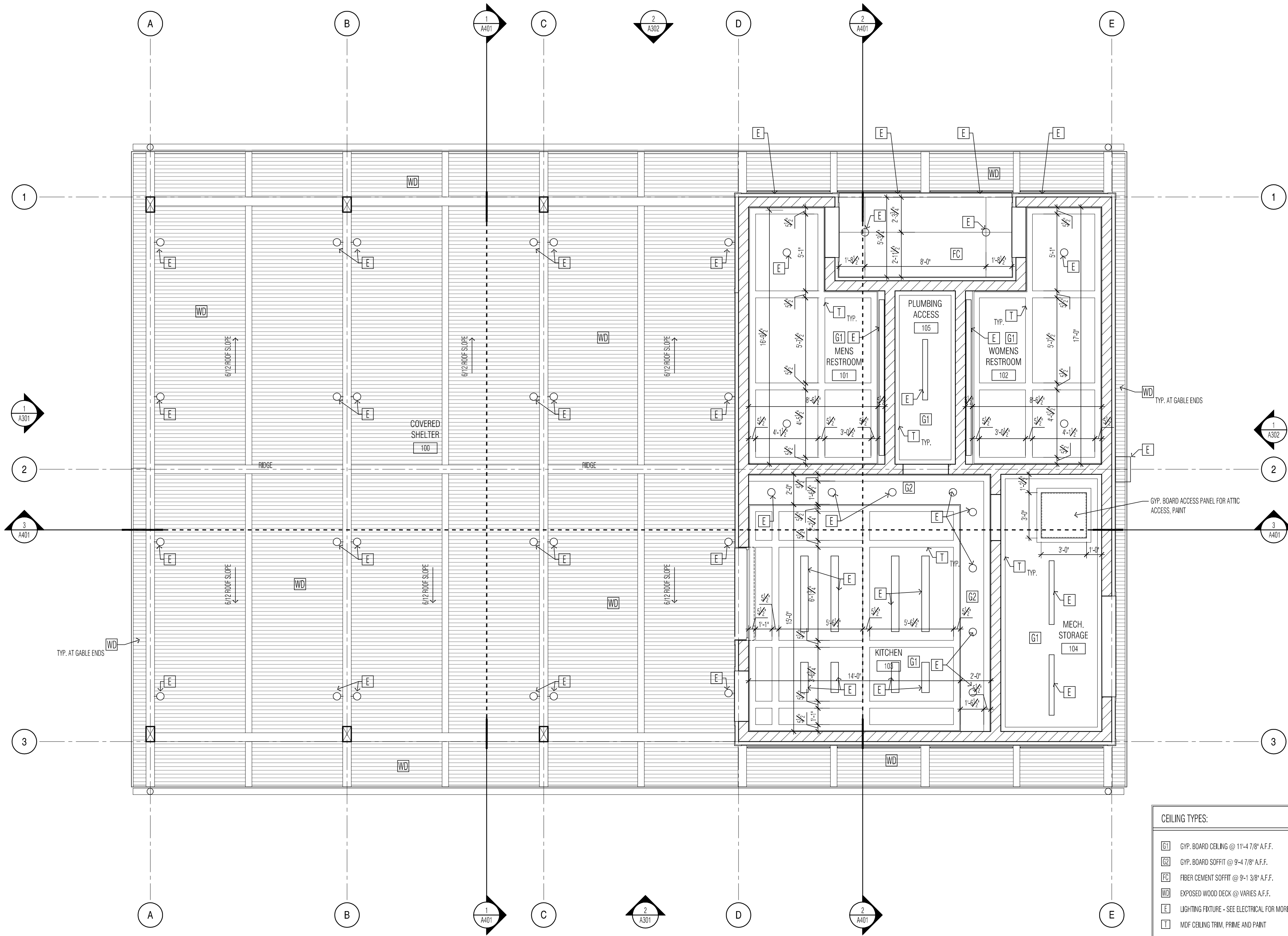
CHECKED BY: TRS

SHEET NAME:

ROOF PLAN

SHEET NO:

A102



1 REFLECTED CEILING PLAN

1/4" = 1'-0"

NORTH



CONSULTANT:



OERTEL
ARCHITECTS

1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105

(651) 696-5186
www.oertelarchitects.com

REVISIONS / ISSUE

NO. DATE DESCRIPTION

0 08/12/22 BID SET

SOUTH VALLEY PARK
PHASE 1 IMPROVEMENTS

SOUTH VALLEY PARK
2810 70TH ST E
INVER GROVE HEIGHTS, MN 55076

PROJECT NAME:

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 ARCHITECT
UNDER THE LAWS OF THE STATE OF
MINNESOTA.

Signature

Thomas Stromsodt
Name

48038 08/12/2022
License # Date

PROJECT NUMBER: 21-07

DATE OF ISSUE: AUGUST 12, 2022

DRAWN BY: TRS/DCE

CHECKED BY: TRS

SHEET NAME:

REFLECTED CEILING PLAN

SHEET NO:

A201



CONSULTANT:



OERTEL
ARCHITECTS

1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105

(651) 696-5186
www.oertelarchitects.com

REVISIONS / ISSUE

NO.	DATE	DESCRIPTION
0	08/12/22	BID SET

**SOUTH VALLEY PARK
PHASE 1 IMPROVEMENTS**

SOUTH VALLEY PARK
2810 70TH STE
INVER GROVE HEIGHTS, MN 55076

PROJECT NAME:

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 ARCHITECT
UNDER THE LAWS OF THE STATE OF
MINNESOTA.

Thomas Stromsodt
Signature

Thomas Stromsodt
Name

48038 08/12/2022
License # Date

PROJECT NUMBER: 21-07

DATE OF ISSUE: AUGUST 12, 2022

DRAWN BY: TRS/DCE

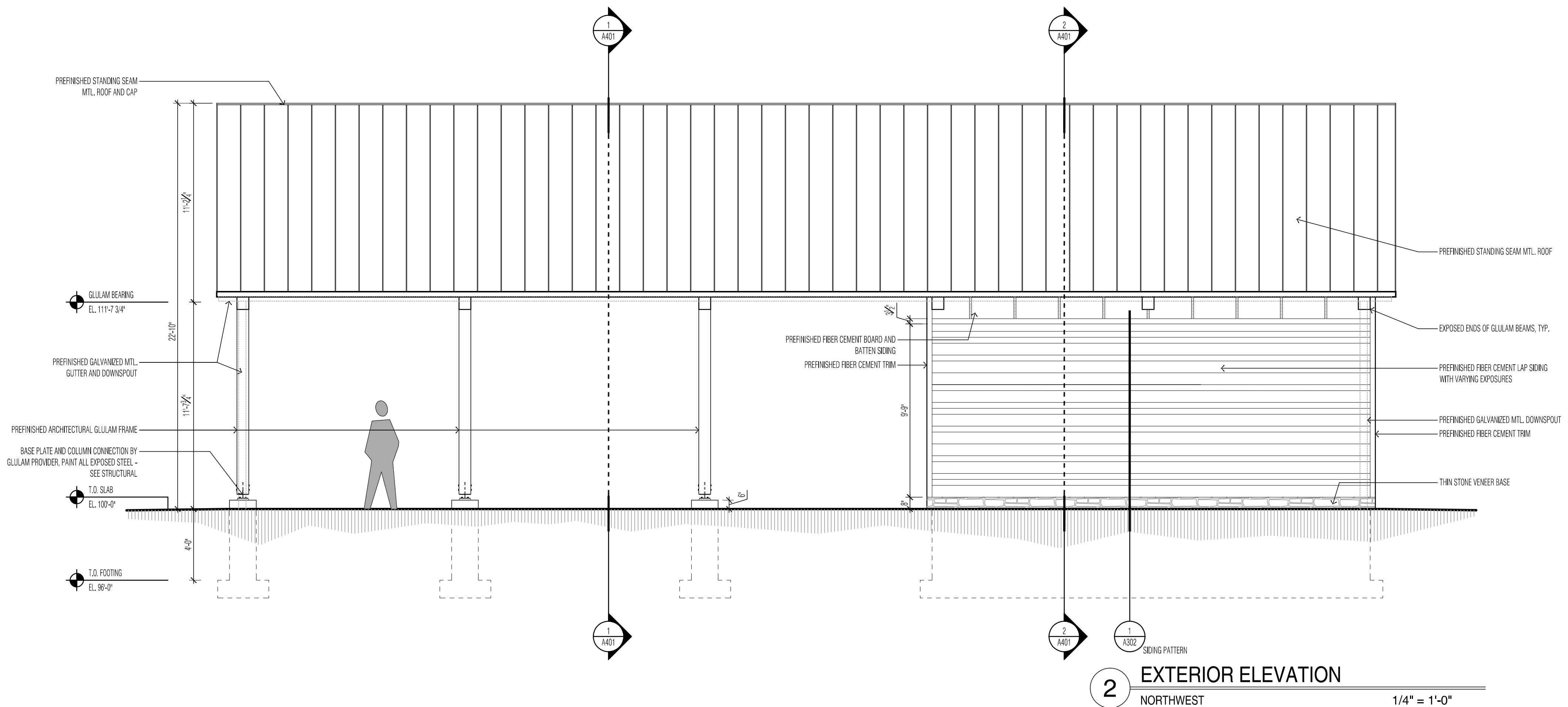
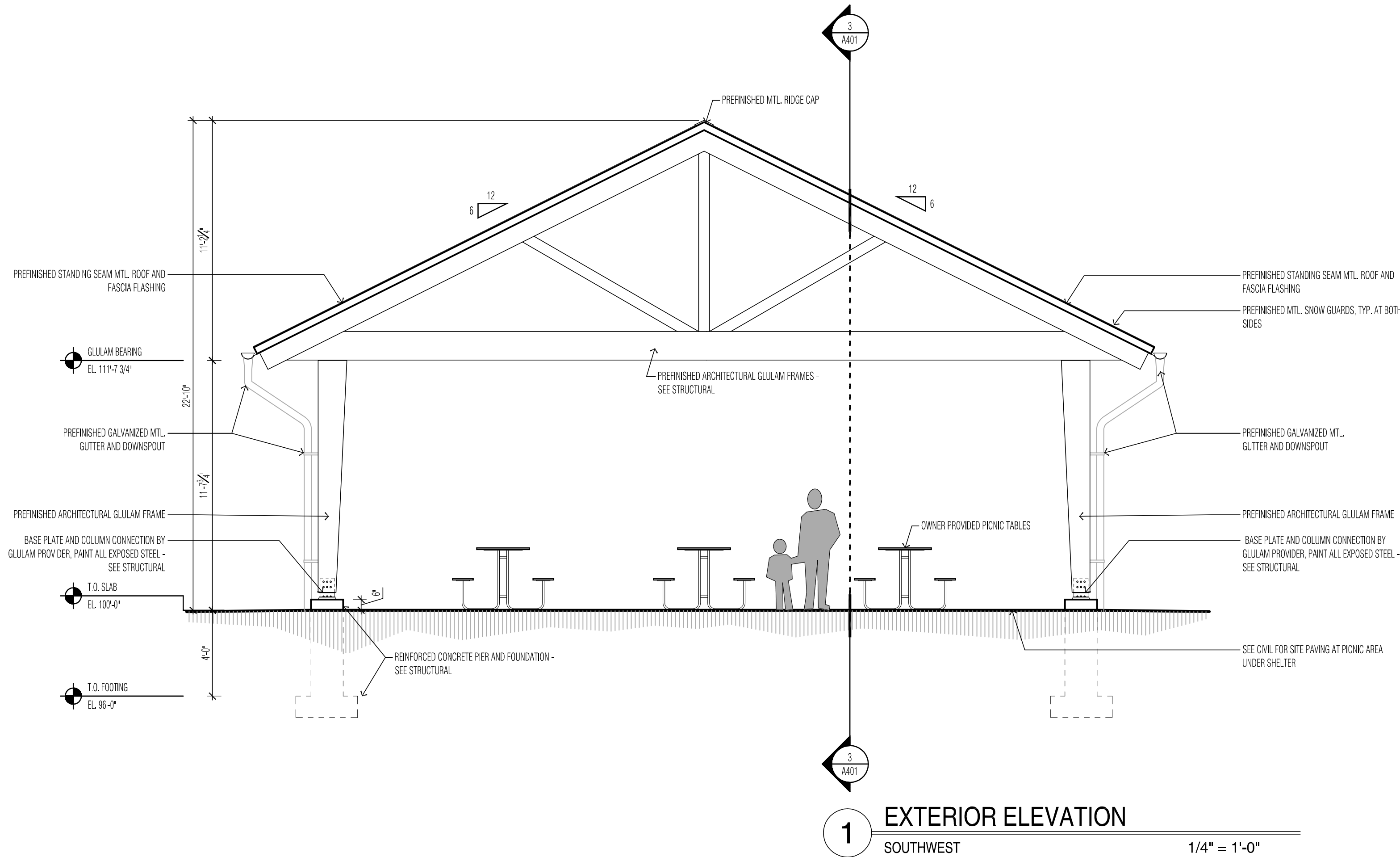
CHECKED BY: TRS

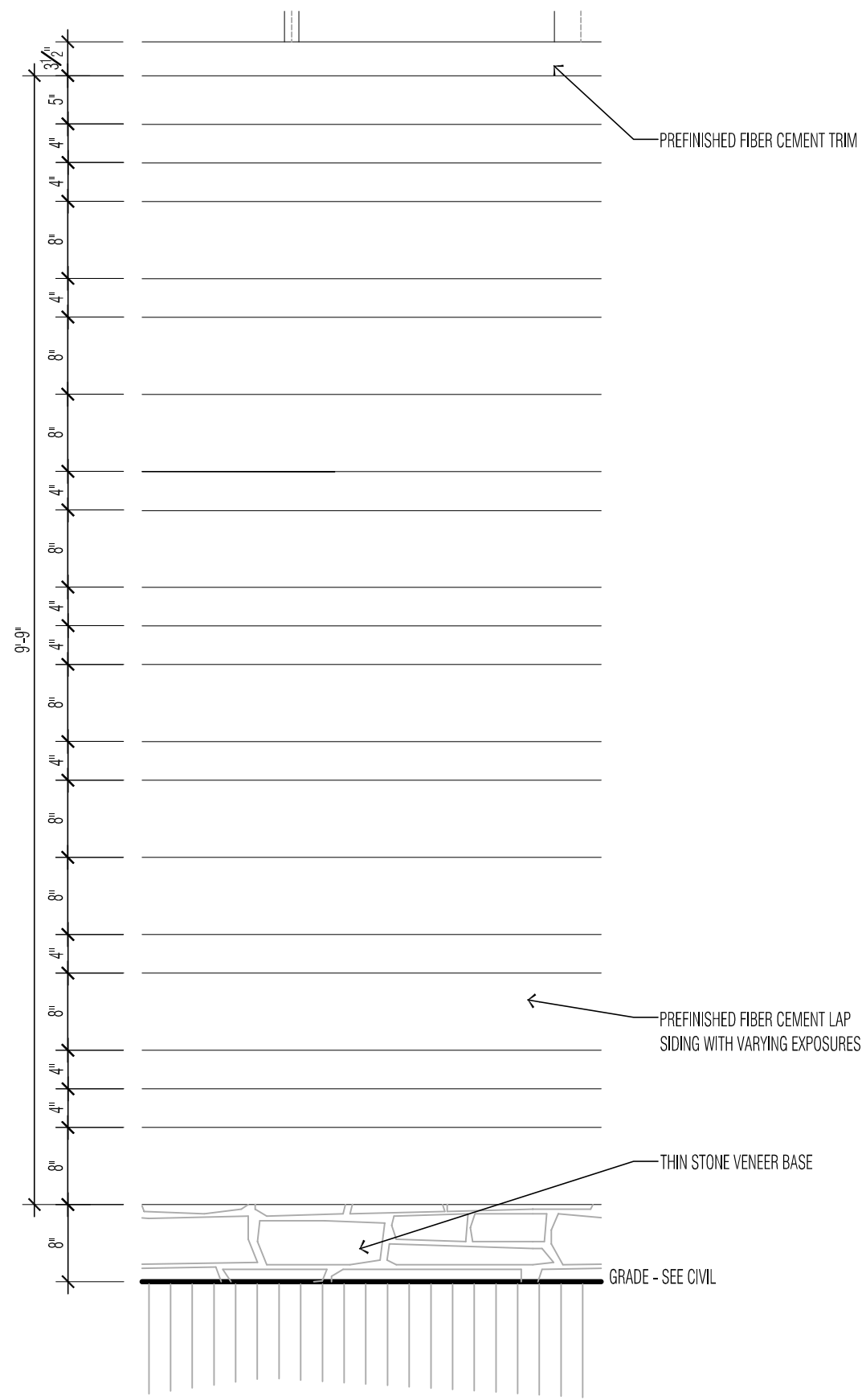
SHEET NAME:

**EXTERIOR
ELEVATIONS**

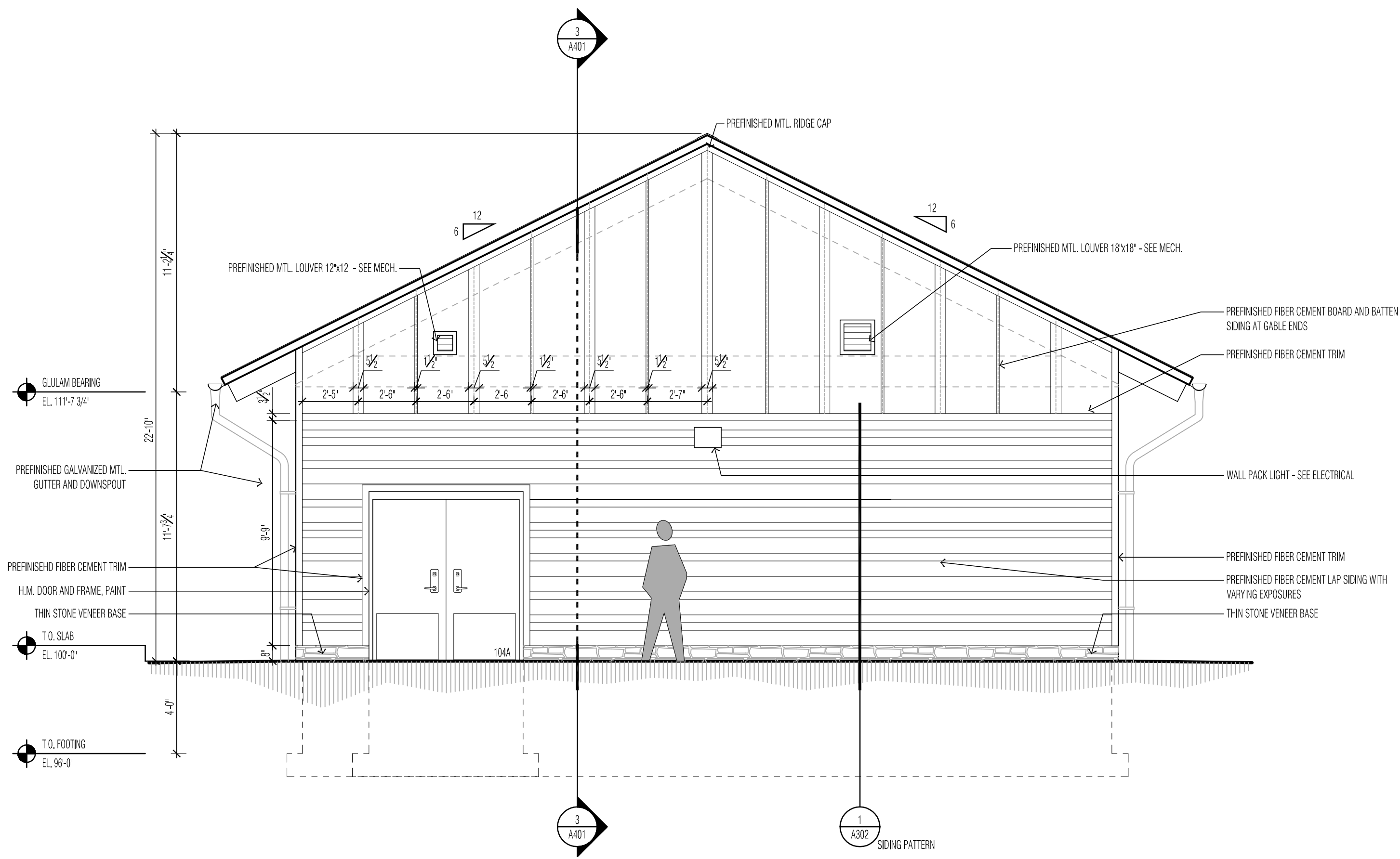
SHEET NO:

A301

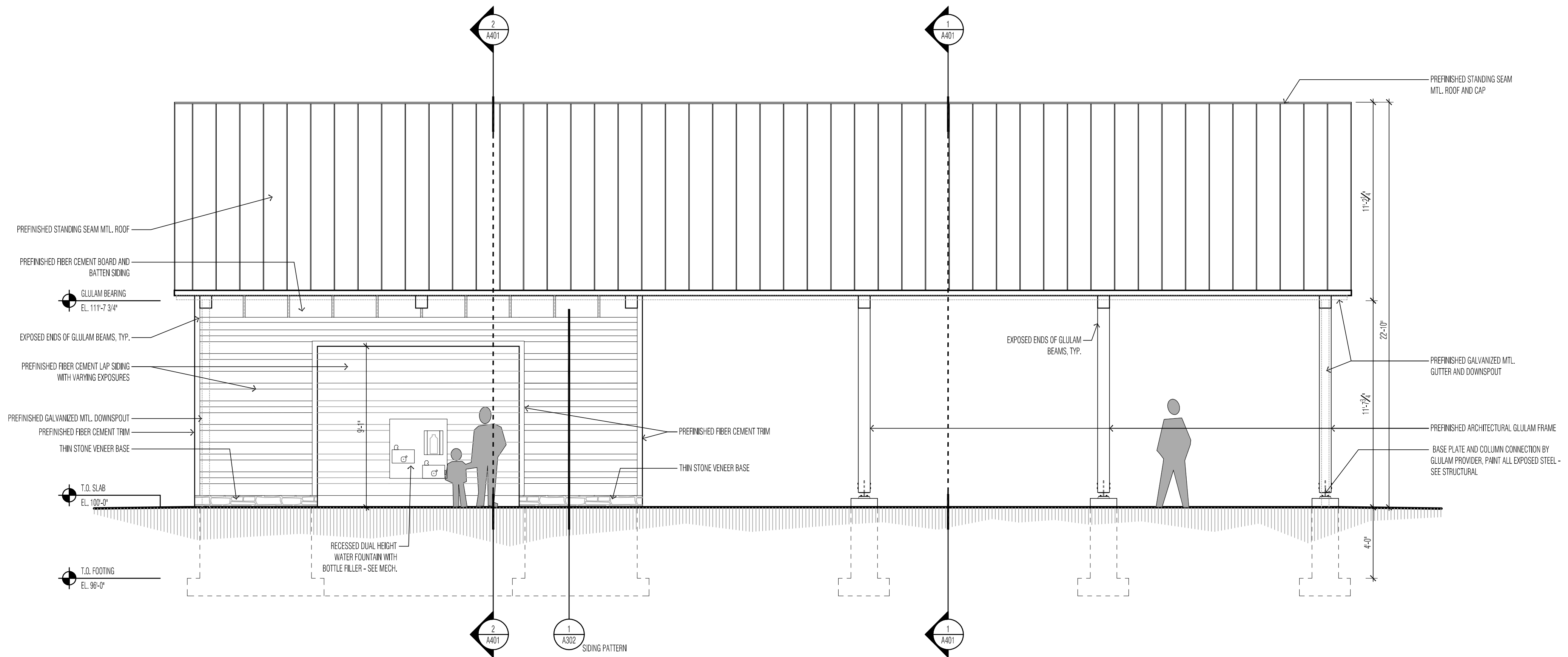




1 ENLARGED ELEVATION
SIDING EXPOSURE PATTERN
3/4" = 1'-0"



2 EXTERIOR ELEVATION
NORTHEAST
1/4" = 1'-0"



3 EXTERIOR ELEVATION
SOUTHEAST
1/4" = 1'-0"



CONSULTANT:
OERTEL
ARCHITECTS
1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105
(651) 696-5186
www.oertelarchitects.com

REVISIONS / ISSUE		
NO.	DATE	DESCRIPTION
0	08/12/22	BID SET

SOUTH VALLEY PARK
PHASE 1 IMPROVEMENTS
SOUTH VALLEY PARK
2810 70TH STE
INVER GROVE HEIGHTS, MN 55076

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 ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

Thomas Stromsodt
Signature

Thomas Stromsodt
Name

48038 08/12/2022
License # Date

PROJECT NUMBER: 21-07

DATE OF ISSUE: AUGUST 12, 2022

DRAWN BY: TRS/DCE

CHECKED BY: TRS

SHEET NAME:

EXTERIOR
ELEVATIONS

SHEET NO:

A302



CONSULTANT:



OERTEL
ARCHITECTS

1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105

(651) 696-5186
www.oertelarchitects.com

REVISIONS / ISSUE

NO.	DATE	DESCRIPTION
0	08/12/22	BID SET

**SOUTH VALLEY PARK
PHASE 1 IMPROVEMENTS**

SOUTH VALLEY PARK
2810 70TH ST E
INVER GROVE HEIGHTS, MN 55076

PROJECT NAME:

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 ARCHITECT
UNDER THE LAWS OF THE STATE OF
MINNESOTA.

Thomas Stromsodt
Signature

Thomas Stromsodt
Name

48038 08/12/2022
License # Date

PROJECT NUMBER: 21-07

DATE OF ISSUE: AUGUST 12, 2022

DRAWN BY: TRS/DCE

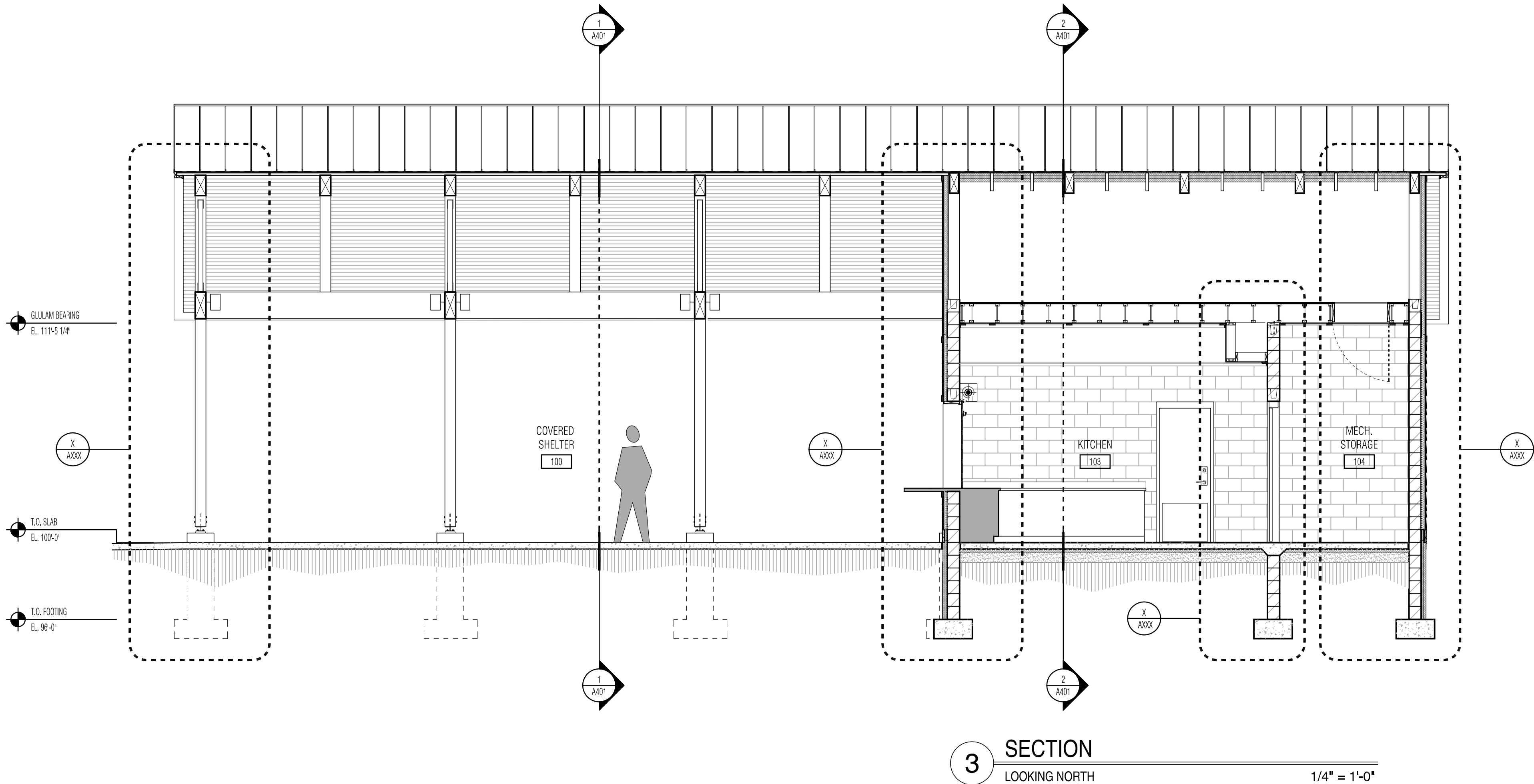
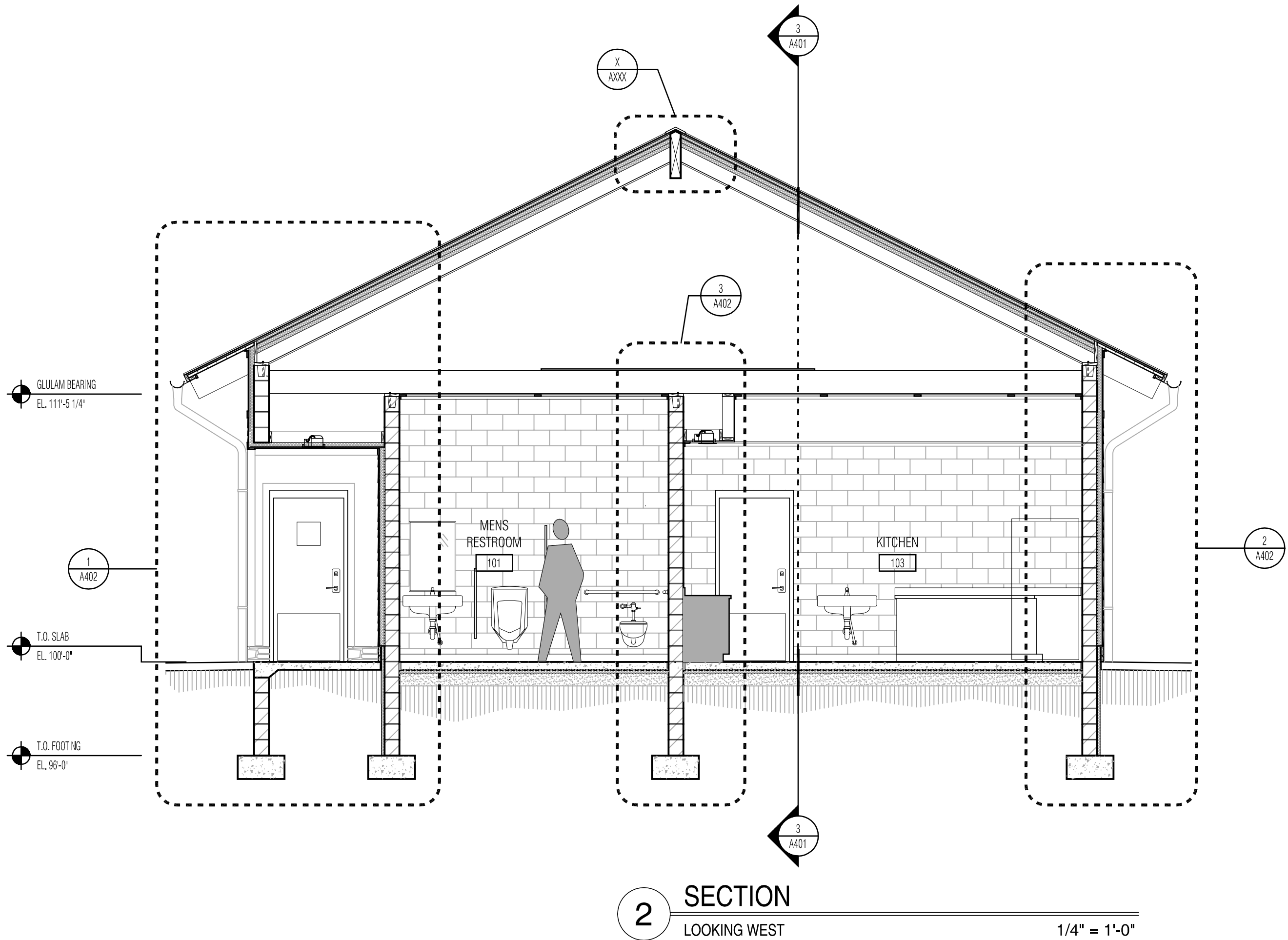
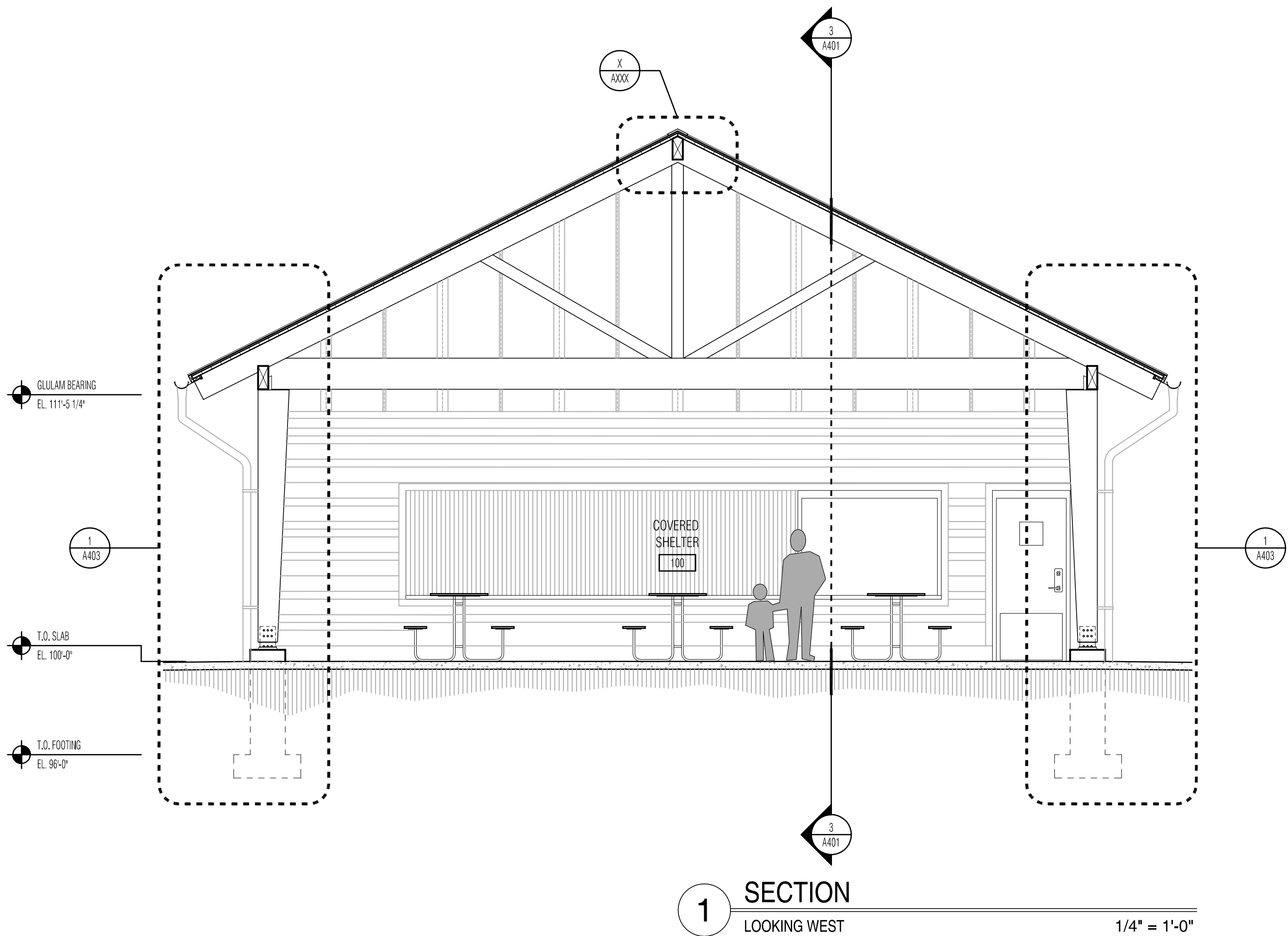
CHECKED BY: TRS

SHEET NAME:

**SHELTER
SECTIONS**

SHEET NO:

A401





CONSULTANT:



OERTEL
ARCHITECTS

1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105

(651) 696-5186
www.oertelarchitects.com

REVISIONS / ISSUE

NO.	DATE	DESCRIPTION	BID SET
0	08/12/22		

**SOUTH VALLEY PARK
PHASE 1 IMPROVEMENTS**

SOUTH VALLEY PARK
2810 70TH STE
INVER GROVE HEIGHTS, MN 55076

PROJECT NAME:

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 ARCHITECT
UNDER THE LAWS OF THE STATE OF
MINNESOTA.

Thomas Stromsodt
Signature

Thomas Stromsodt
Name

48038 08/12/2022
License # Date

PROJECT NUMBER: 21-07

DATE OF ISSUE: AUGUST 12, 2022

DRAWN BY: TRS/DCE

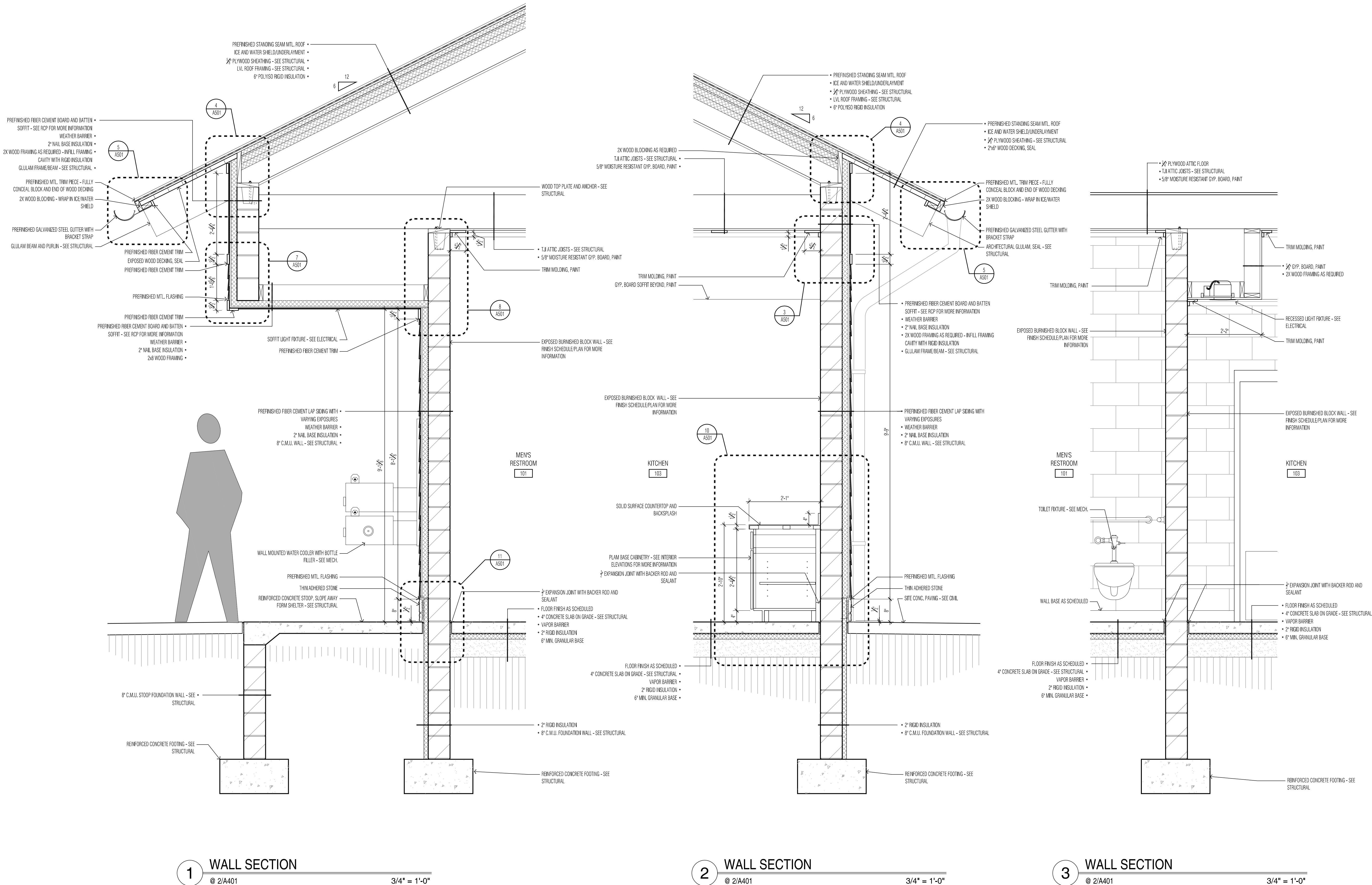
CHECKED BY: TRS

SHEET NAME:

WALL SECTIONS

SHEET NO:

A402





CONSULTANT:



**OERTEL
ARCHITECTS**

1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105

(651) 696-5186
www.oertelarchitects.com

REVISIONS / ISSUE

NO. DATE DESCRIPTION

0 08/12/22 BID SET

SOUTH VALLEY PARK PHASE 1 IMPROVEMENTS

SOUTH VALLEY PARK
2810 70TH STE
INVER GROVE HEIGHTS, MN 55076

PROJECT NAME:

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 ARCHITECT
UNDER THE LAWS OF THE STATE OF
MINNESOTA.

Thomas Stromsodt
Signature

Thomas Stromsodt

Name

48038

08/12/2022

License #

Date

PROJECT NUMBER:

21-07

DATE OF ISSUE:

AUGUST 12, 2022

DRAWN BY:

TRS/DCE

CHECKED BY:

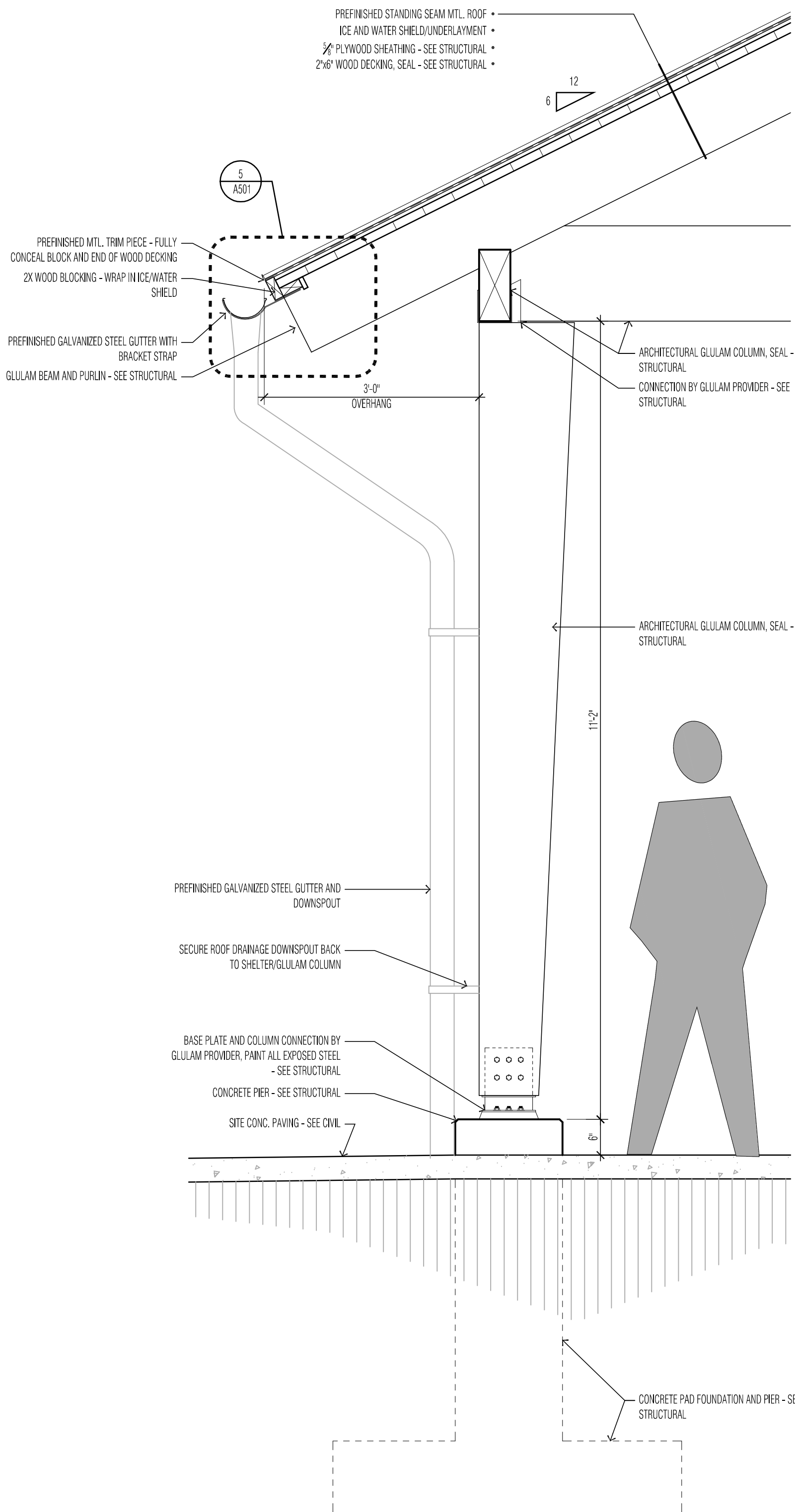
TRS

SHEET NAME:

WALL SECTIONS

SHEET NO.:

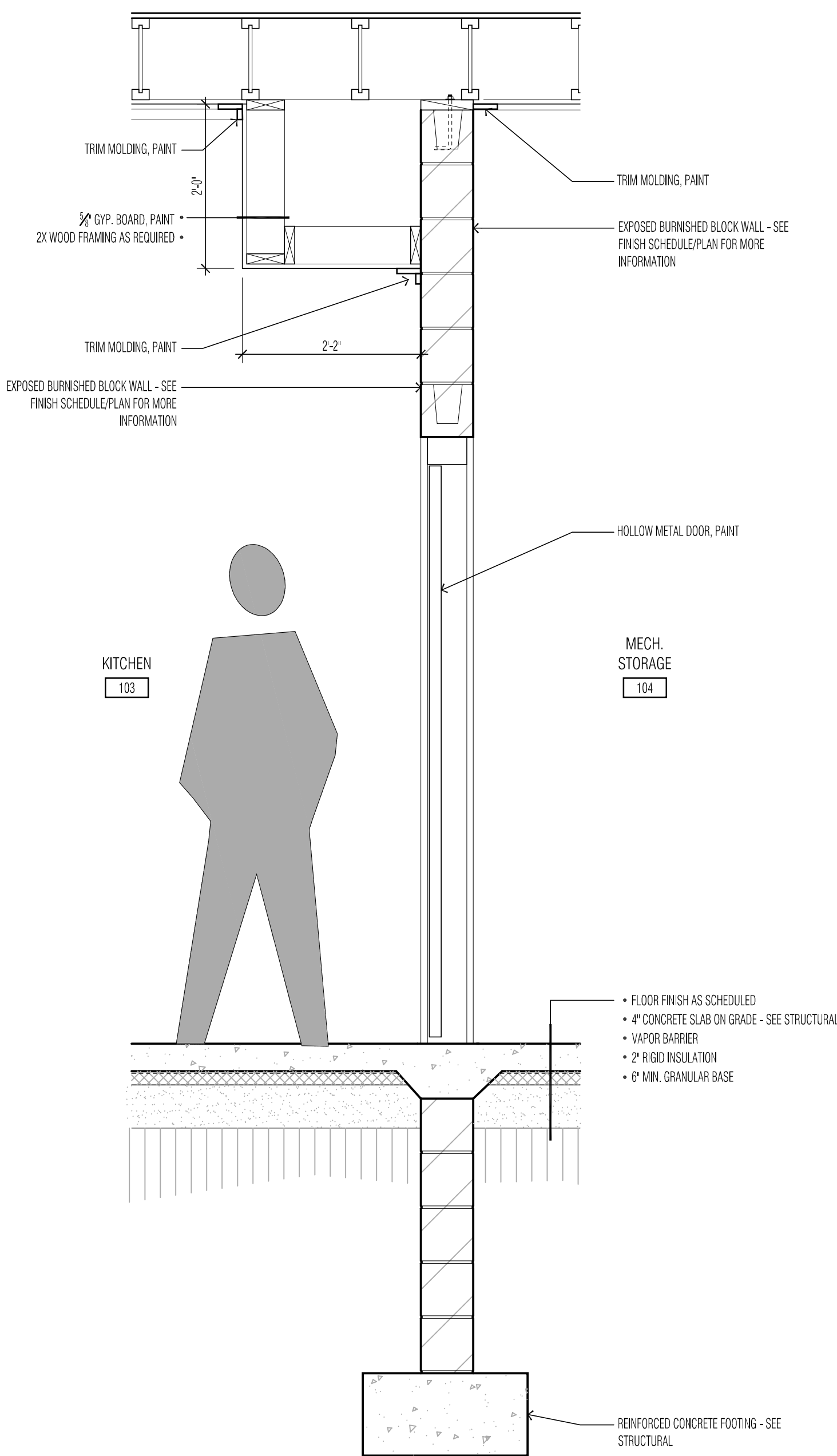
A403



1 WALL SECTION

@ 1/A401

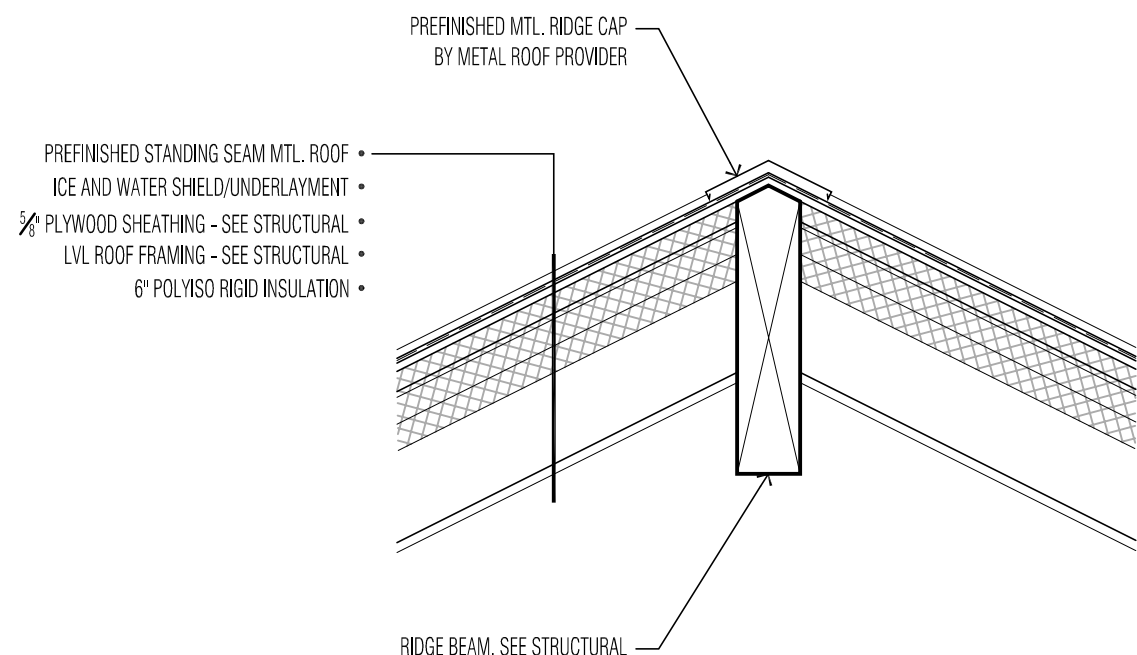
3/4" = 1'-0"



2 WALL SECTION

@ 3/A401

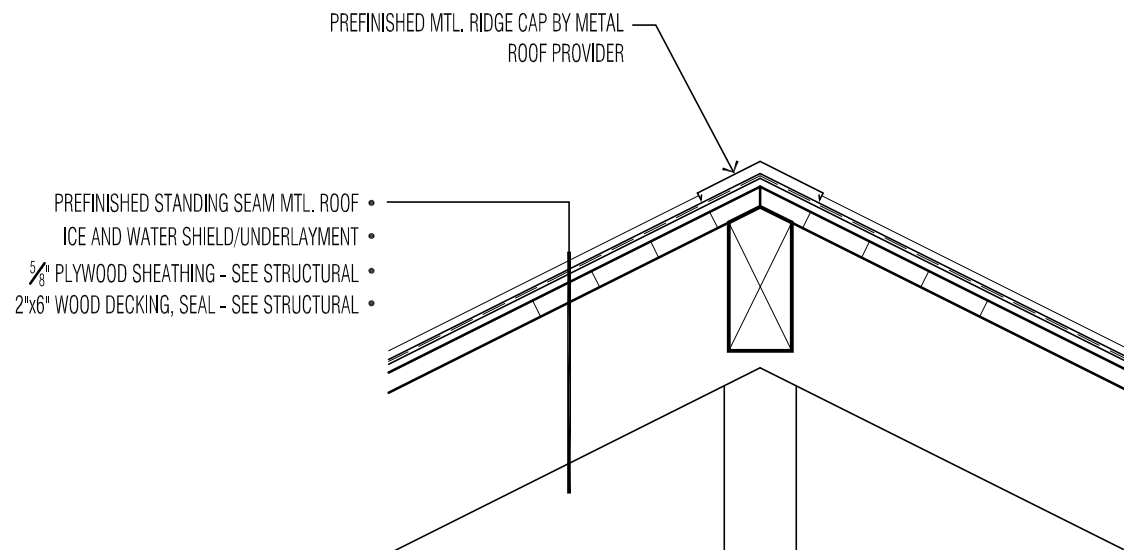
3/4" = 1'-0"



3 RIDGE SECTION

@ 1/A401

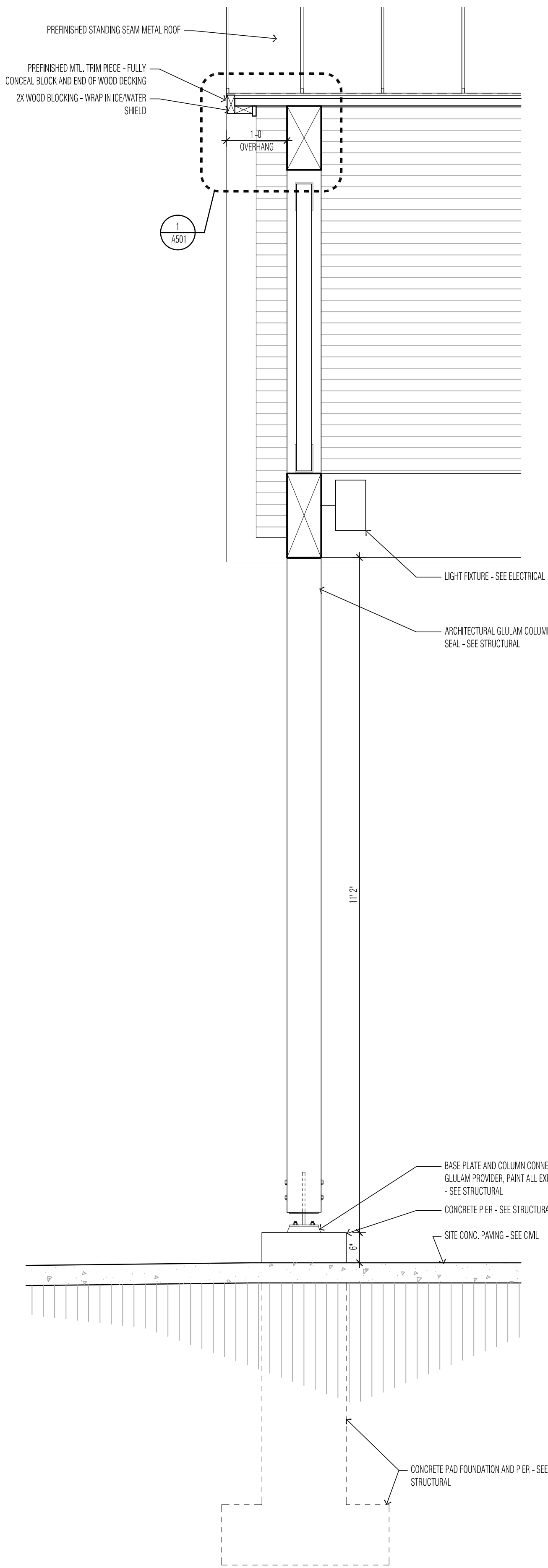
3/4" = 1'-0"



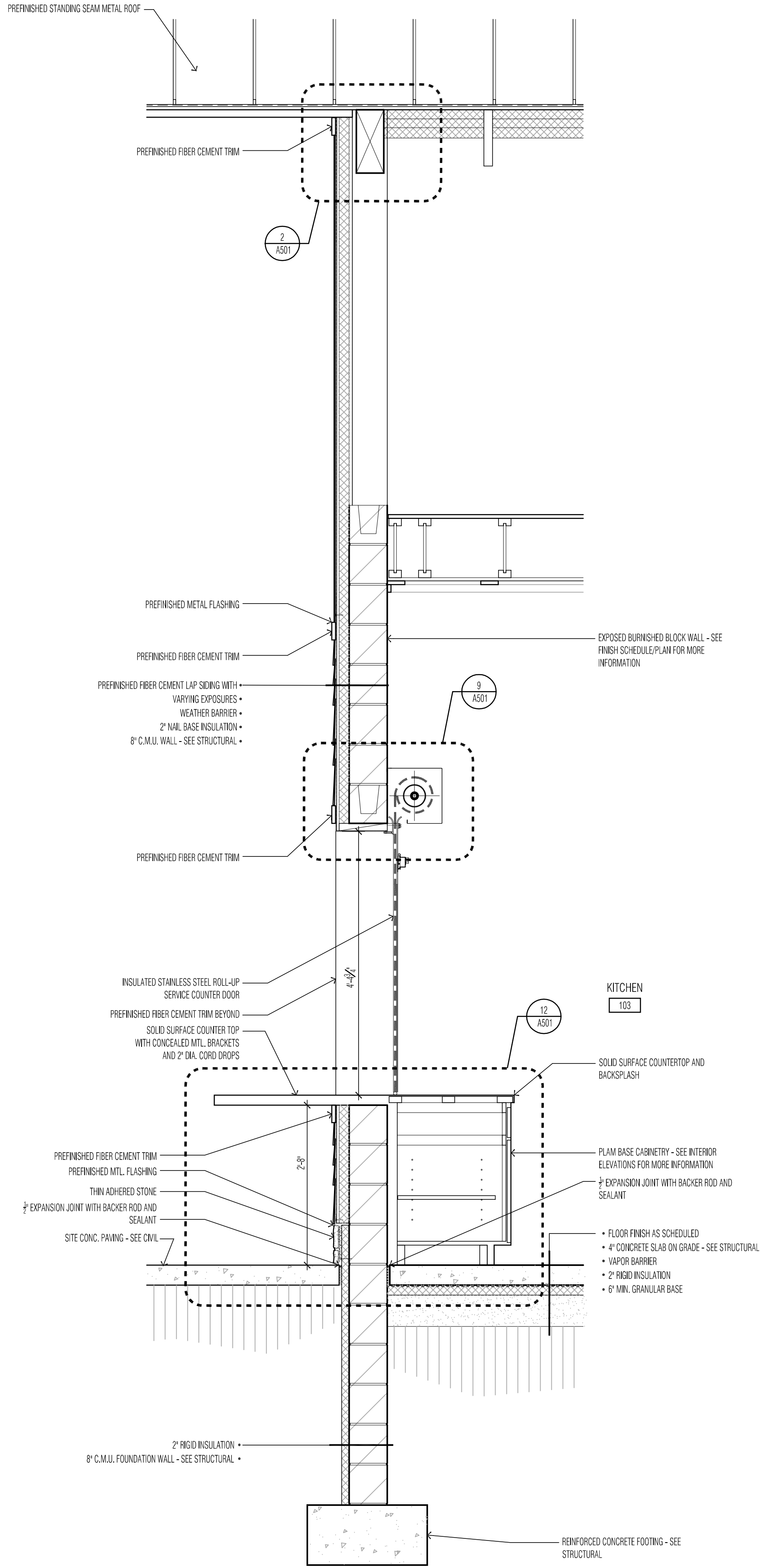
4 RIDGE SECTION

@ 2/A401

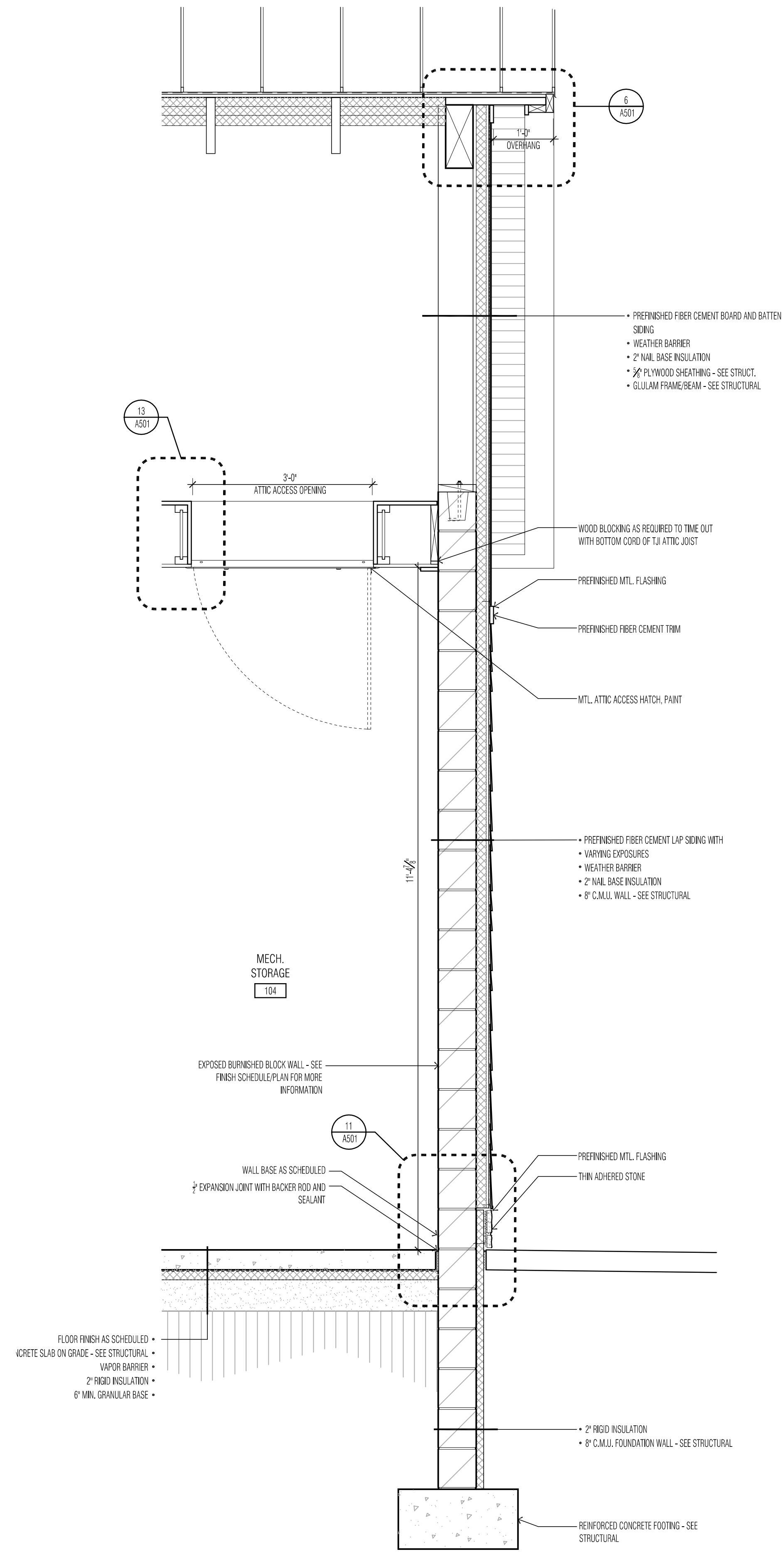
3/4" = 1'-0"



1 WALL SECTION
@ 3/A401
3/4" = 1'-0"



2 WALL SECTION
@ 3/A401
3/4" = 1'-0"



3 WALL SECTION
@ 3/A401
3/4" = 1'-0"



CONSULTANT:
OERTEL ARCHITECTS
1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105
(651) 696-5186
www.oertelarchitects.com

REVISIONS / ISSUE			
NO.	DATE	DESCRIPTION	BID SET
0	08/12/22		

**SOUTH VALLEY PARK
PHASE 1 IMPROVEMENTS**
SOUTH VALLEY PARK
2810 70TH STE
INVER GROVE HEIGHTS, MN 55076

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 ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

Signature
Thomas Stromsodt

Name
Thomas Stromsodt
48038 08/12/2022
License # Date

PROJECT NUMBER: 21-07
DATE OF ISSUE: AUGUST 12, 2022
DRAWN BY: TRS/DCE
CHECKED BY: TRS

SHEET NAME:

WALL SECTIONS

SHEET NO:

A404



CONSULTANT:



OERTEL
ARCHITECTS

1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105

(651) 696-5186
www.oertelarchitects.com

REVISIONS / ISSUE

NO.	DATE	DESCRIPTION	BID SET
0	08/12/22		

SOUTH VALLEY PARK PHASE 1 IMPROVEMENTS

SOUTH VALLEY PARK
2810 70TH STE
INVER GROVE HEIGHTS, MN 55076

PROJECT NAME:

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

Thomas Stromsodt

Signature

Thomas Stromsodt

Name

48038 08/12/2022

License # Date

PROJECT NUMBER: 21-07

DATE OF ISSUE: AUGUST 12, 2022

DRAWN BY: TRS/DCE

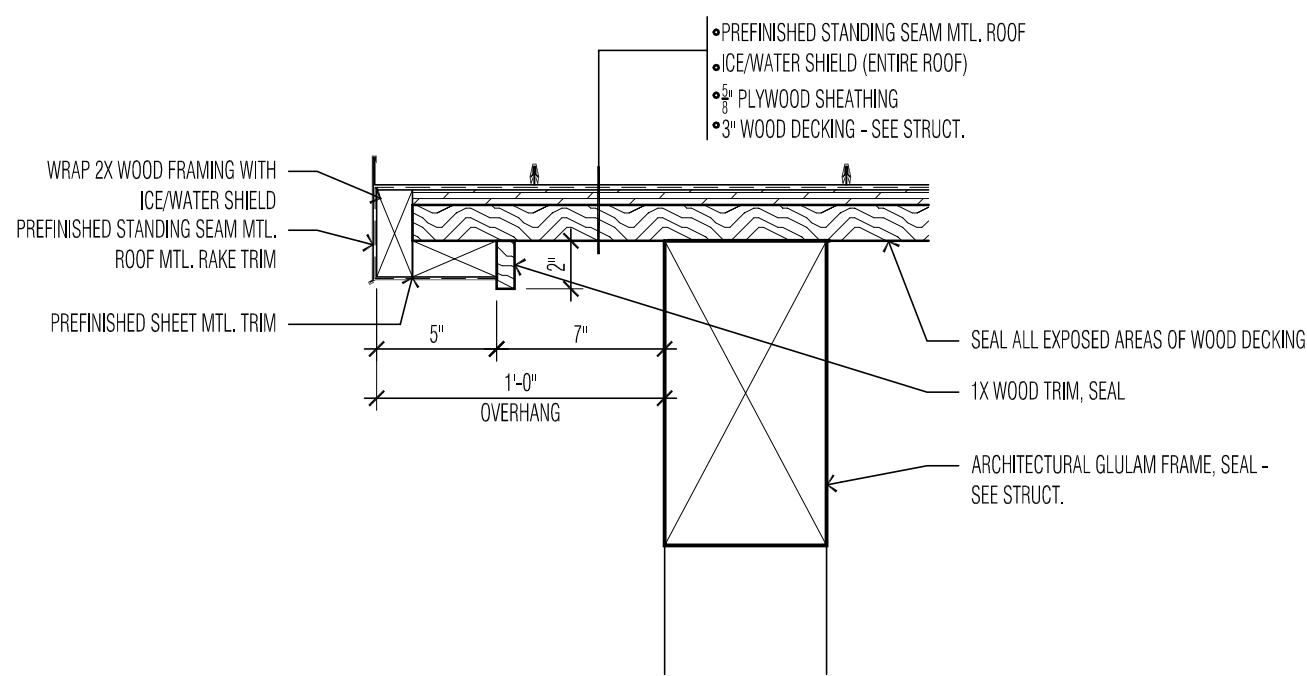
CHECKED BY: TRS

SHEET NAME:

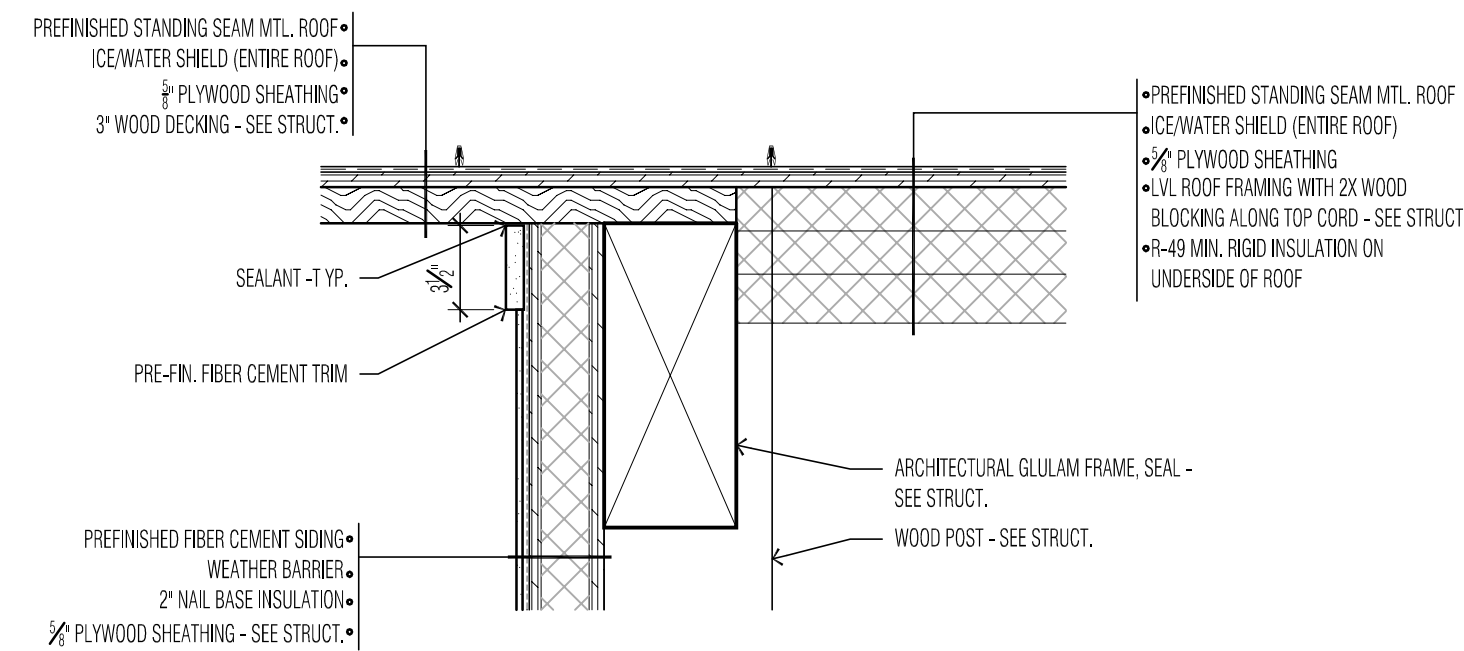
DETAILS

SHEET NO:

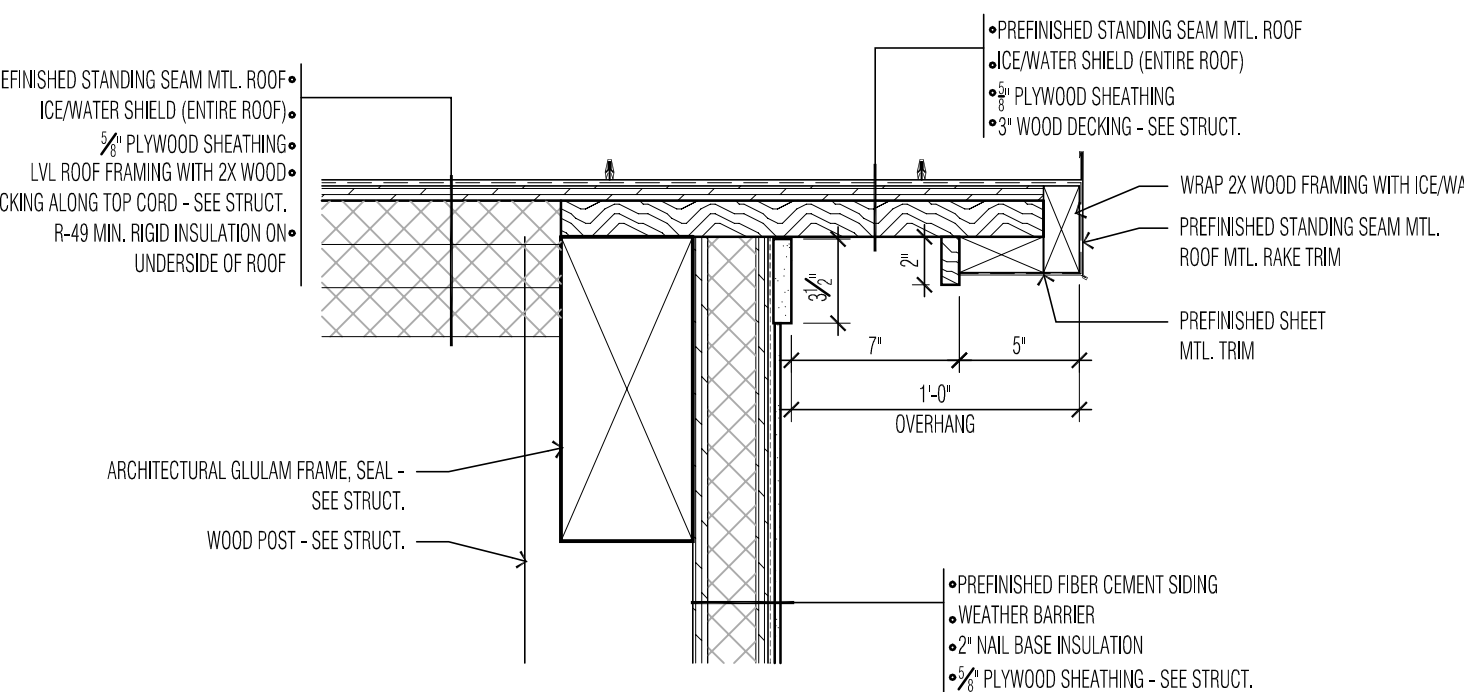
A501



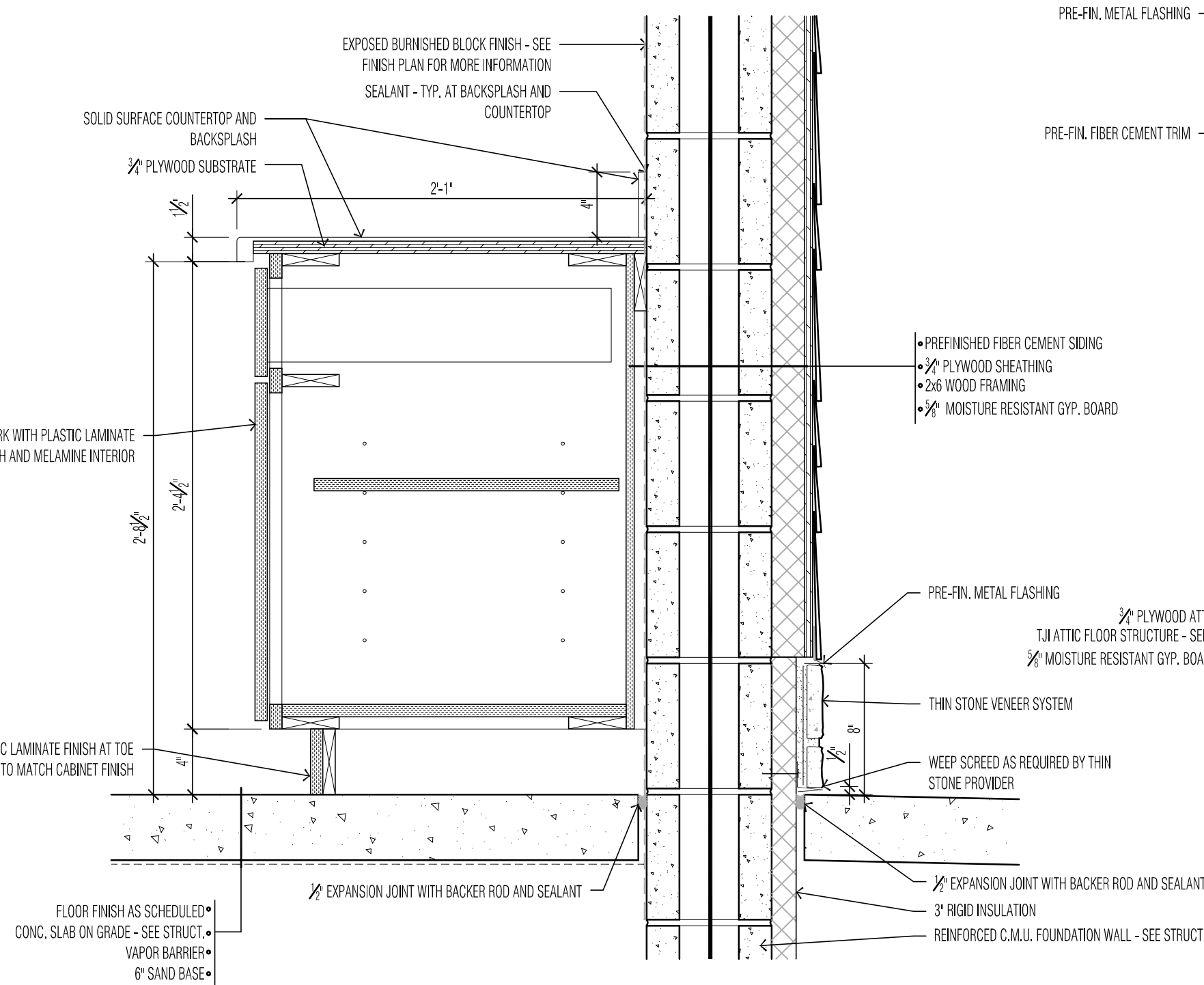
1 ROOF EDGE
1/A404 1 1/2" = 1'-0"



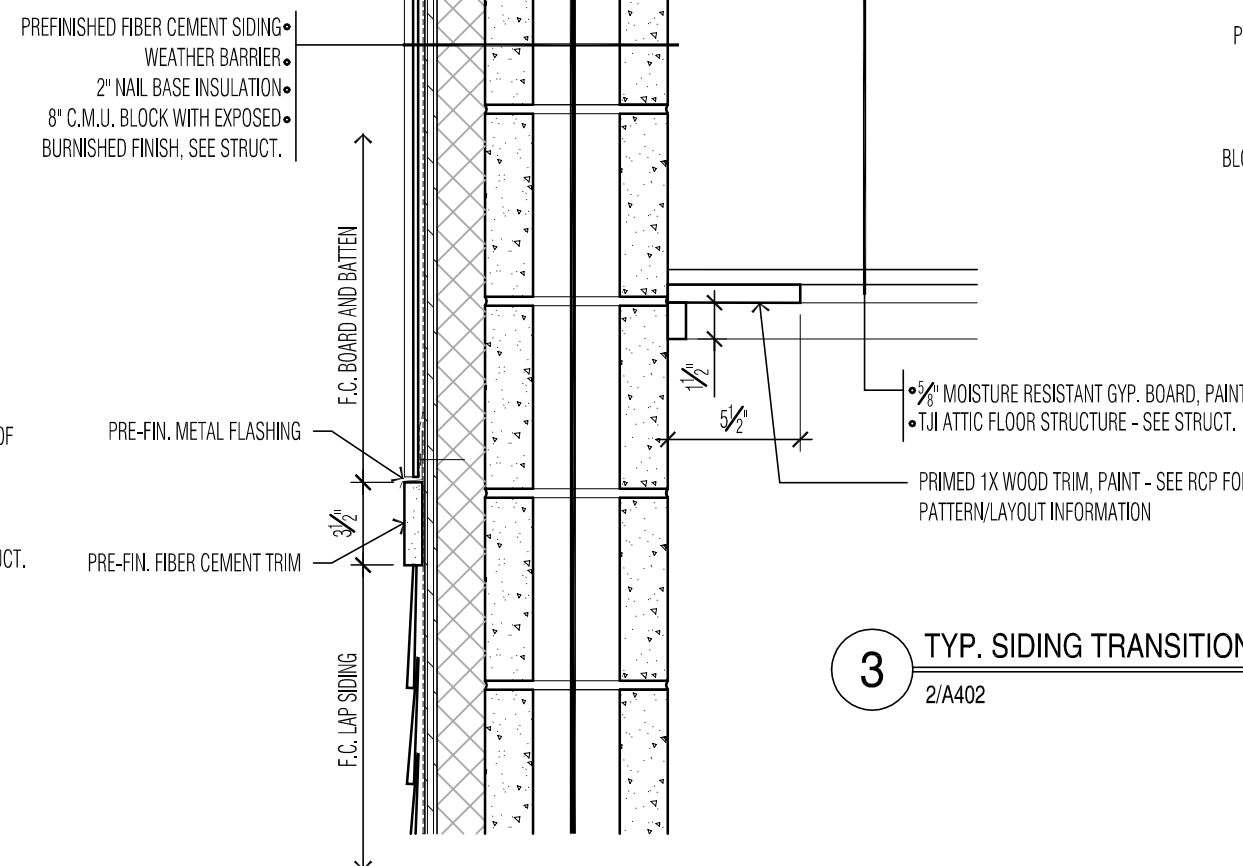
2 INTERIOR WALL @ ROOF
2/A404 1 1/2" = 1'-0"



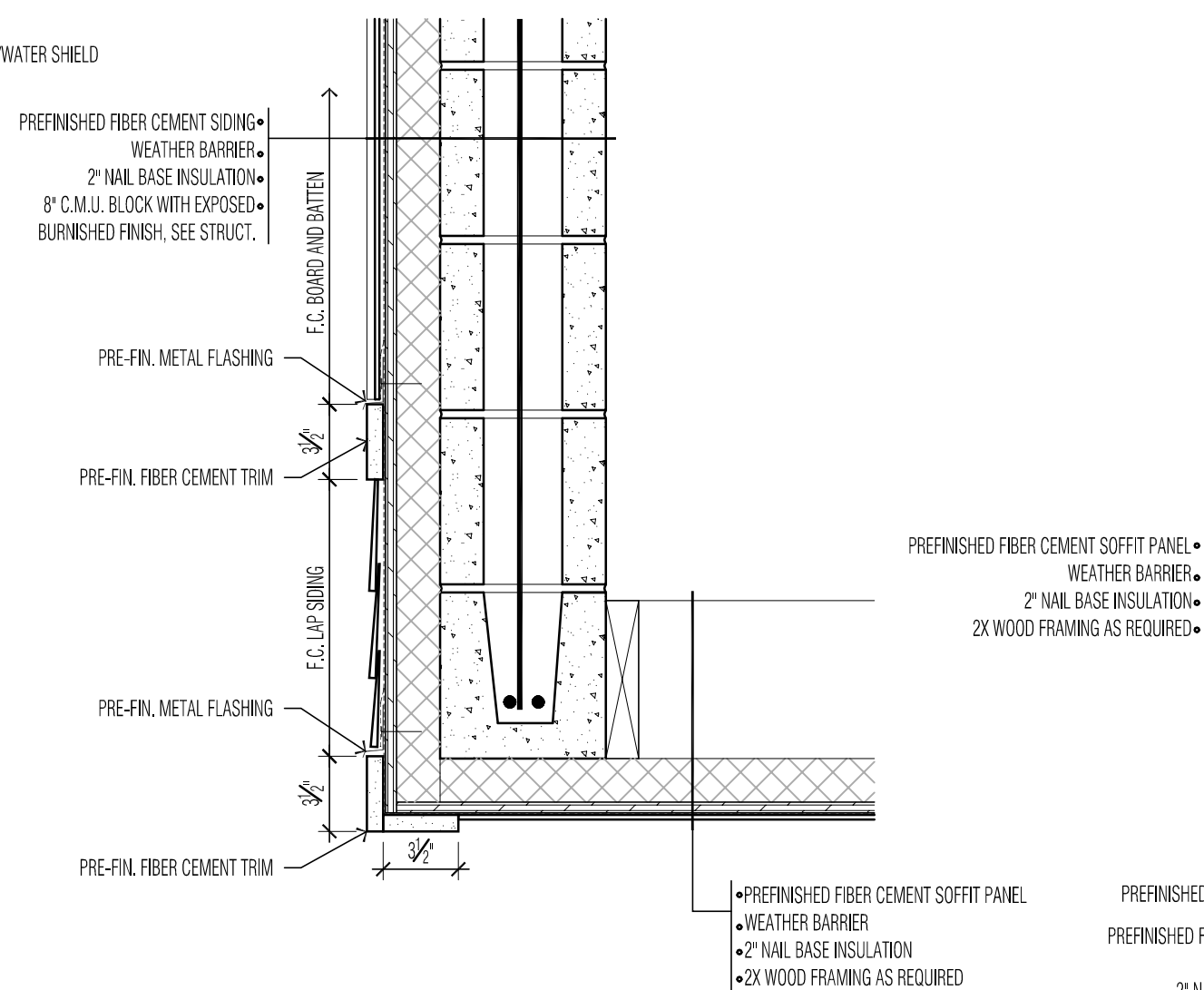
6 ROOF EDGE
3/A404 1 1/2" = 1'-0"



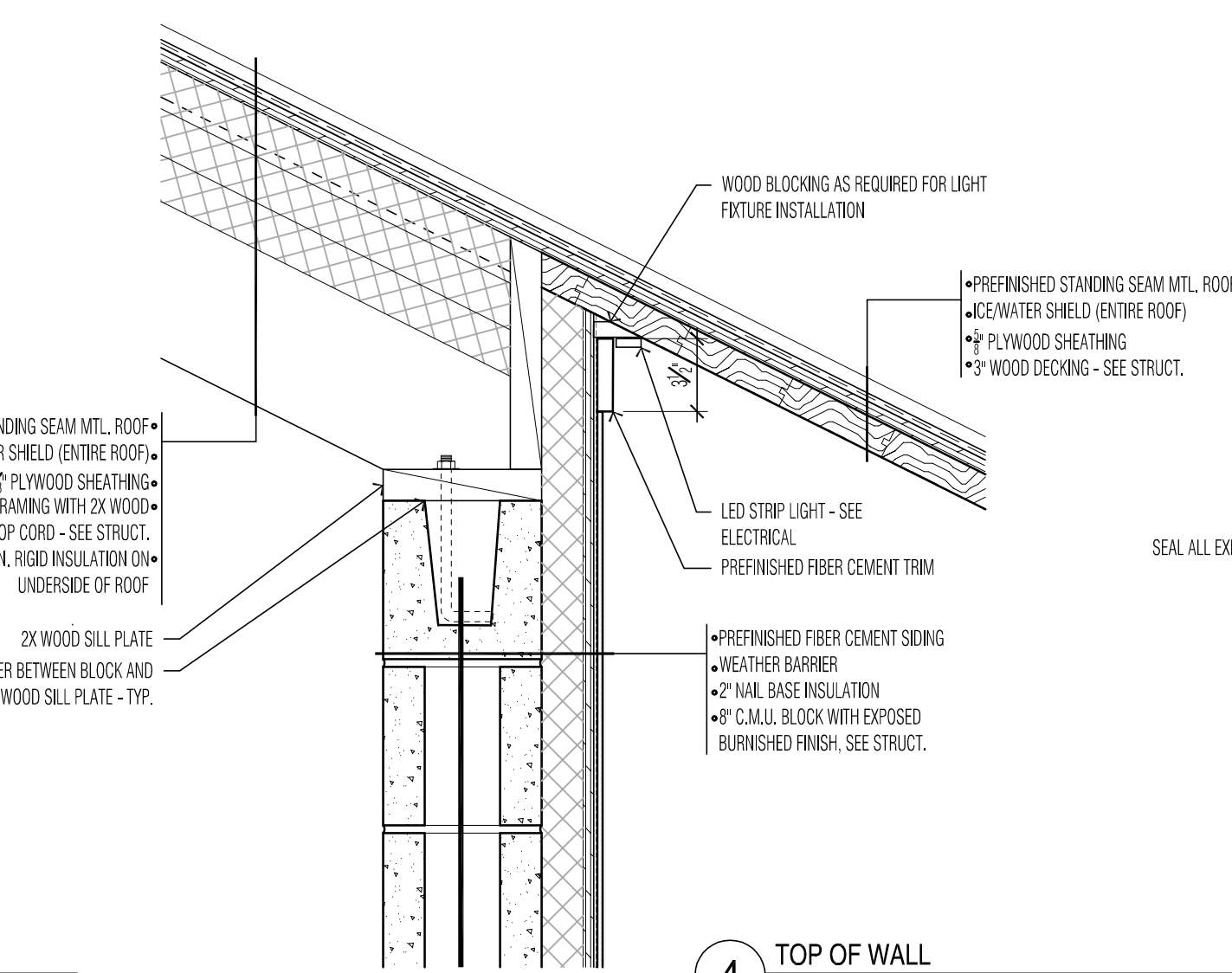
10 TYP. BASE CABINETRY
3/A403 1 1/2" = 1'-0"



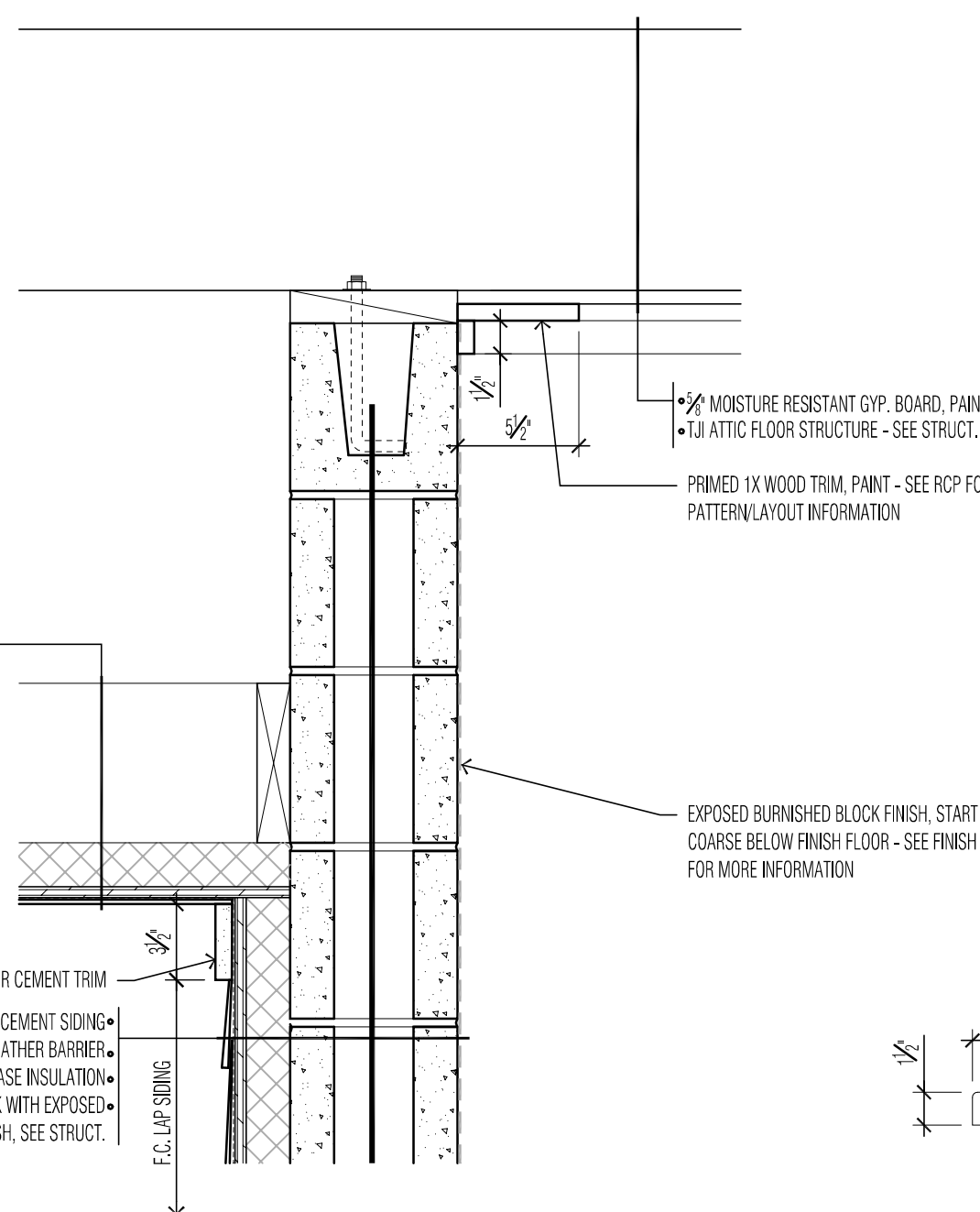
3 TYP. SIDING TRANSITION
2/A402 1 1/2" = 1'-0"



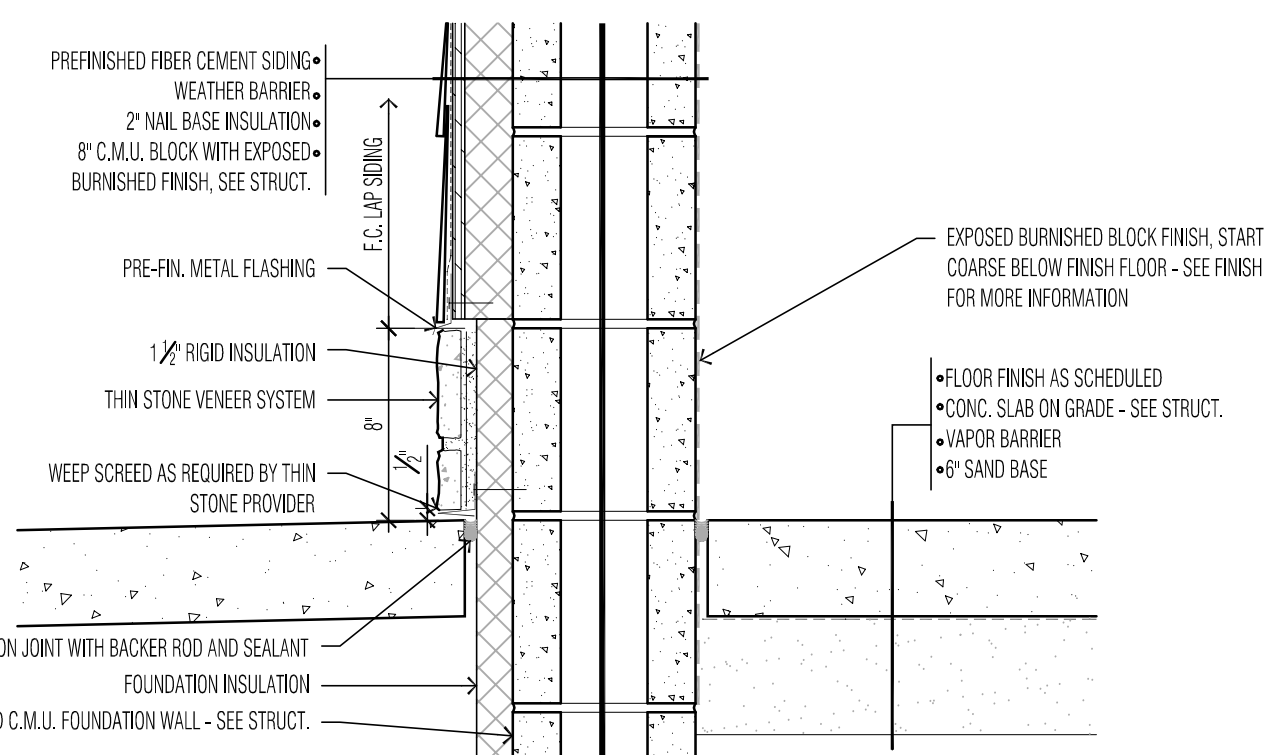
7 SOFFIT @ RESTROOM ENTRY
1/A402 1 1/2" = 1'-0"



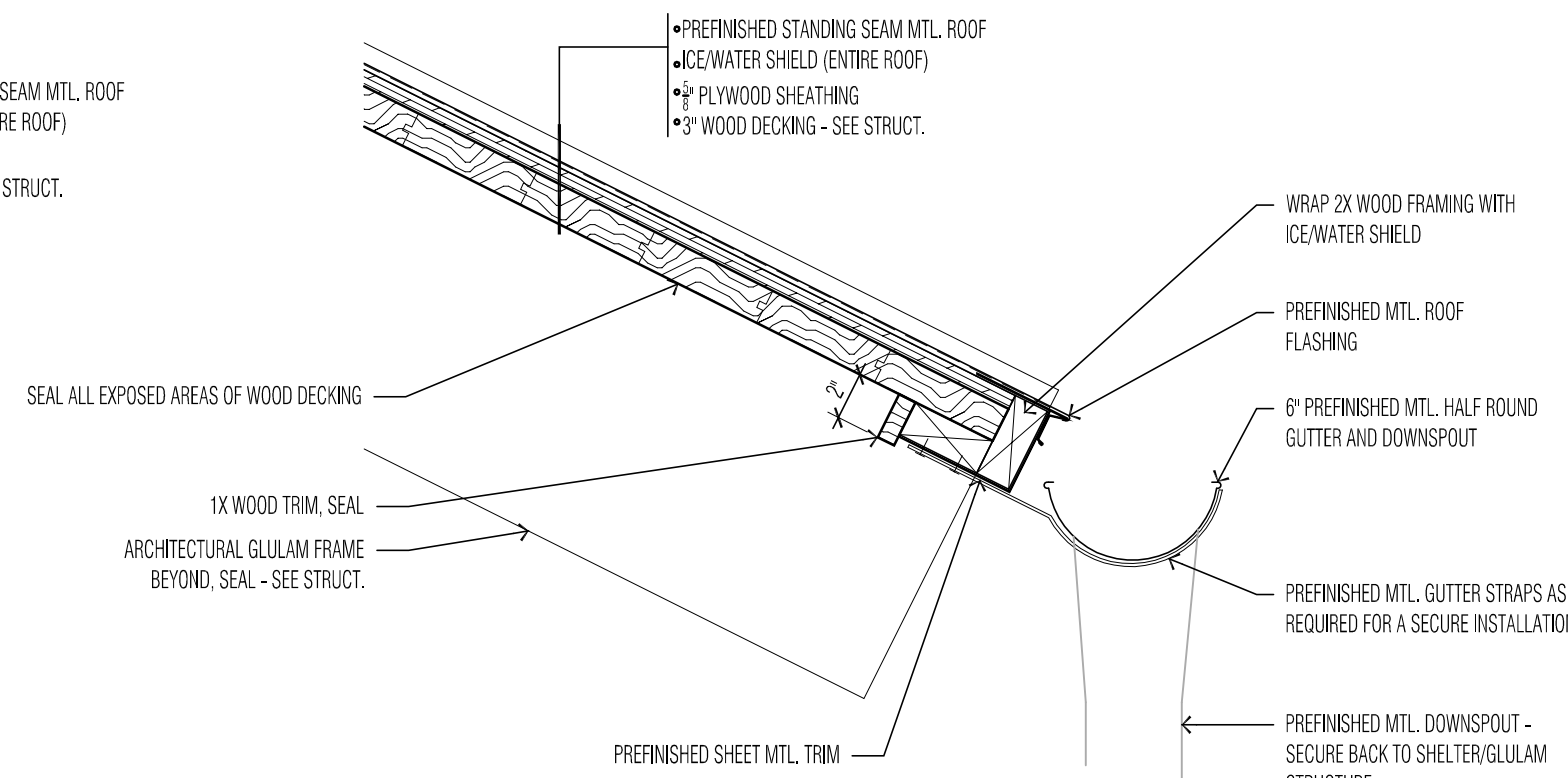
4 TOP OF WALL
2/A402 1 1/2" = 1'-0"



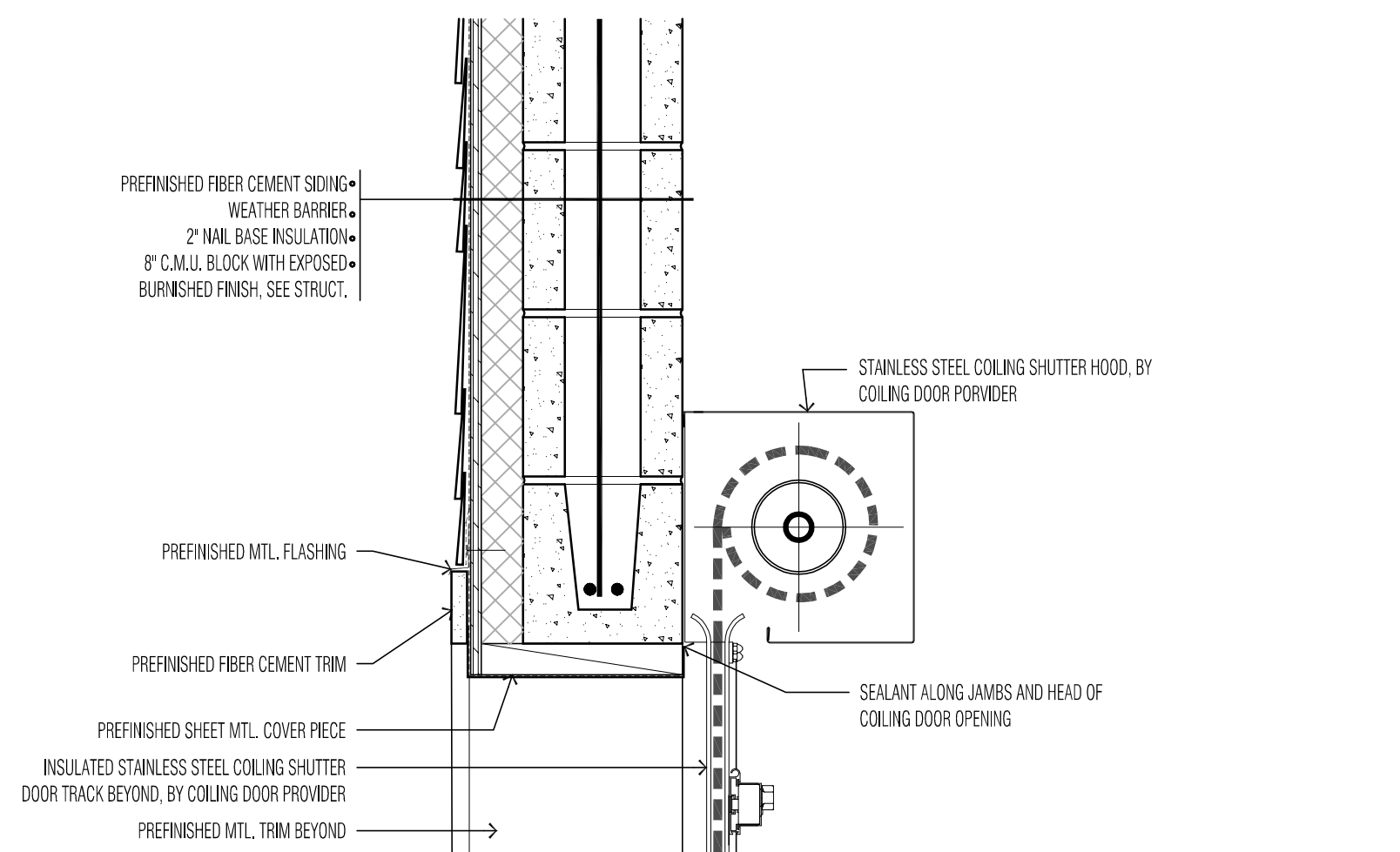
8 SOFFIT @ RESTROOM ENTRY
1/A402 1 1/2" = 1'-0"



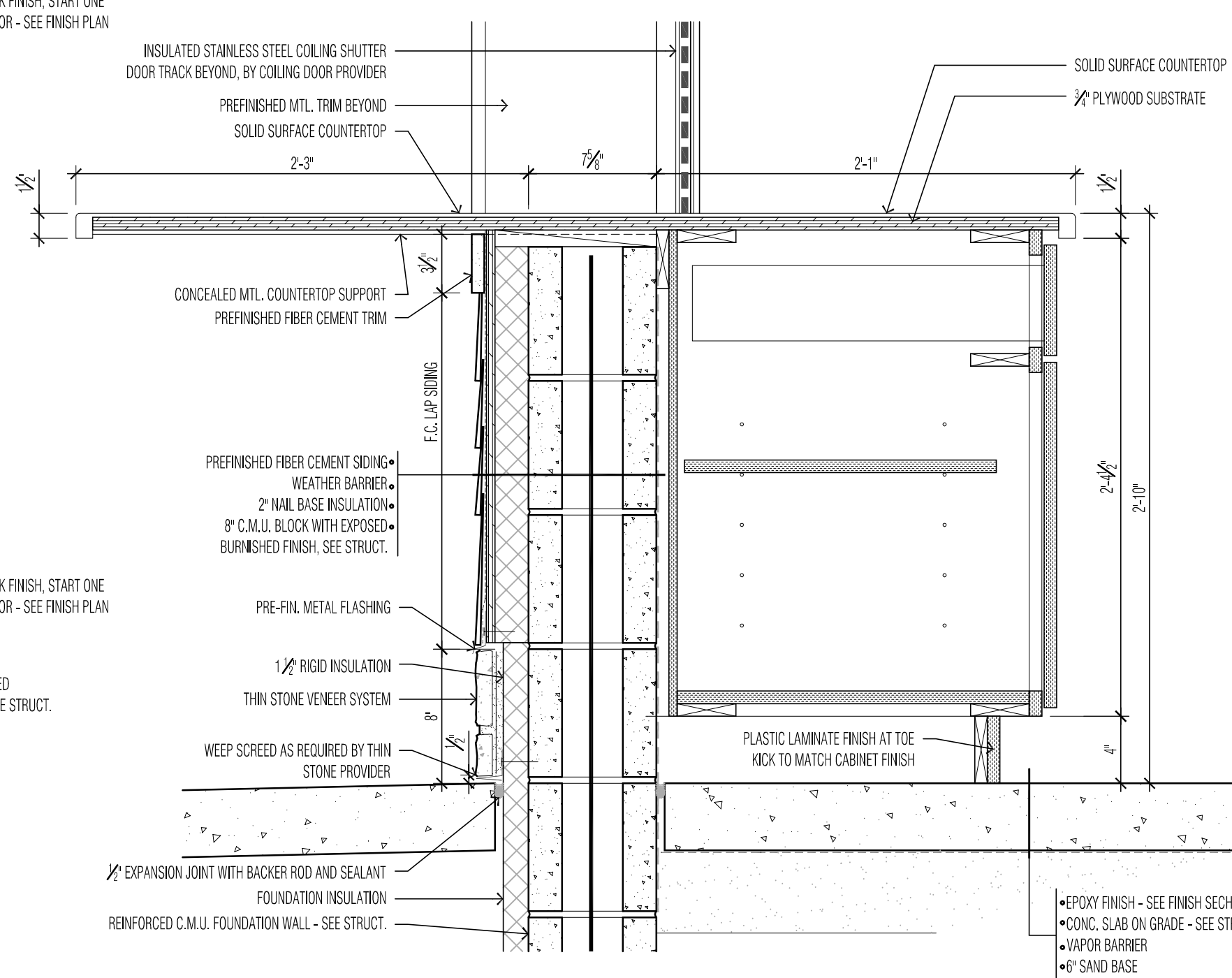
11 TYP. BASE OF WALL
1/A402 1 1/2" = 1'-0"



5 ROOF EDGE/GUTTER
1/A403 1 1/2" = 1'-0"



9 SERVICE COUNTER COILING DOOR
2/A404 1 1/2" = 1'-0"



12 SERVICE COUNTER
2/A404 1 1/2" = 1'-0"



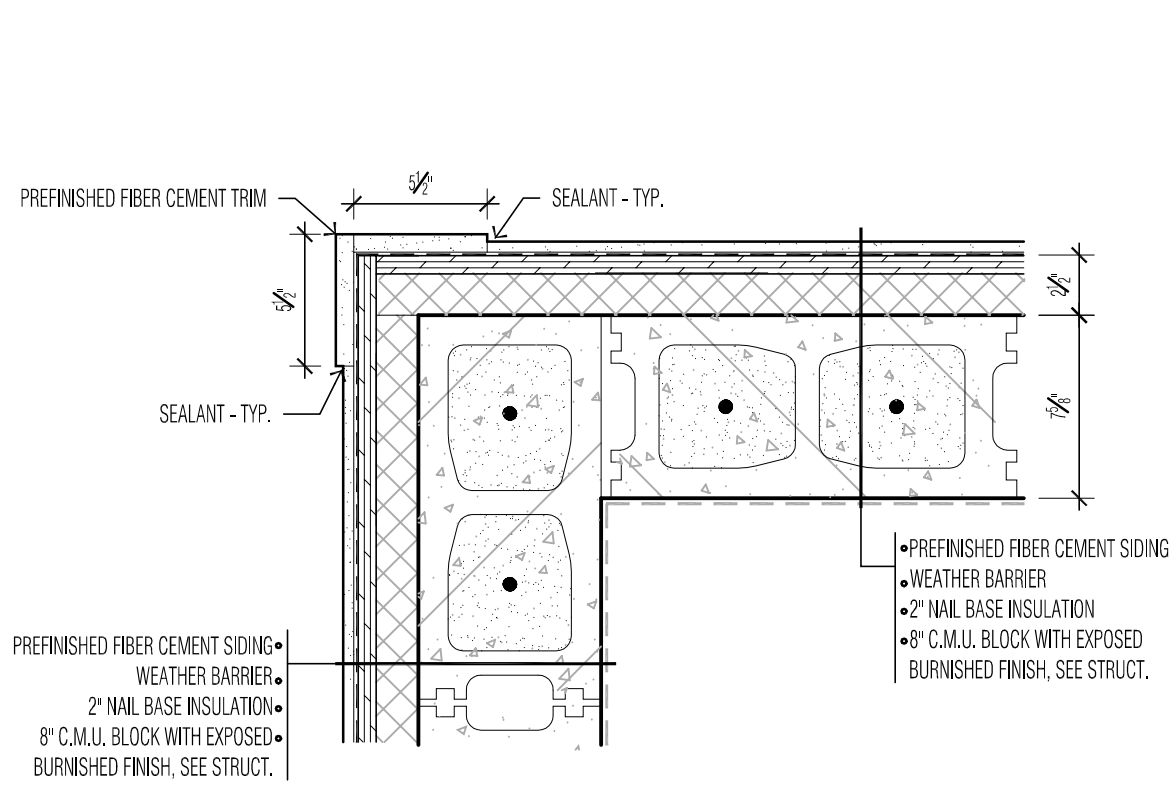
CONSULTANT:



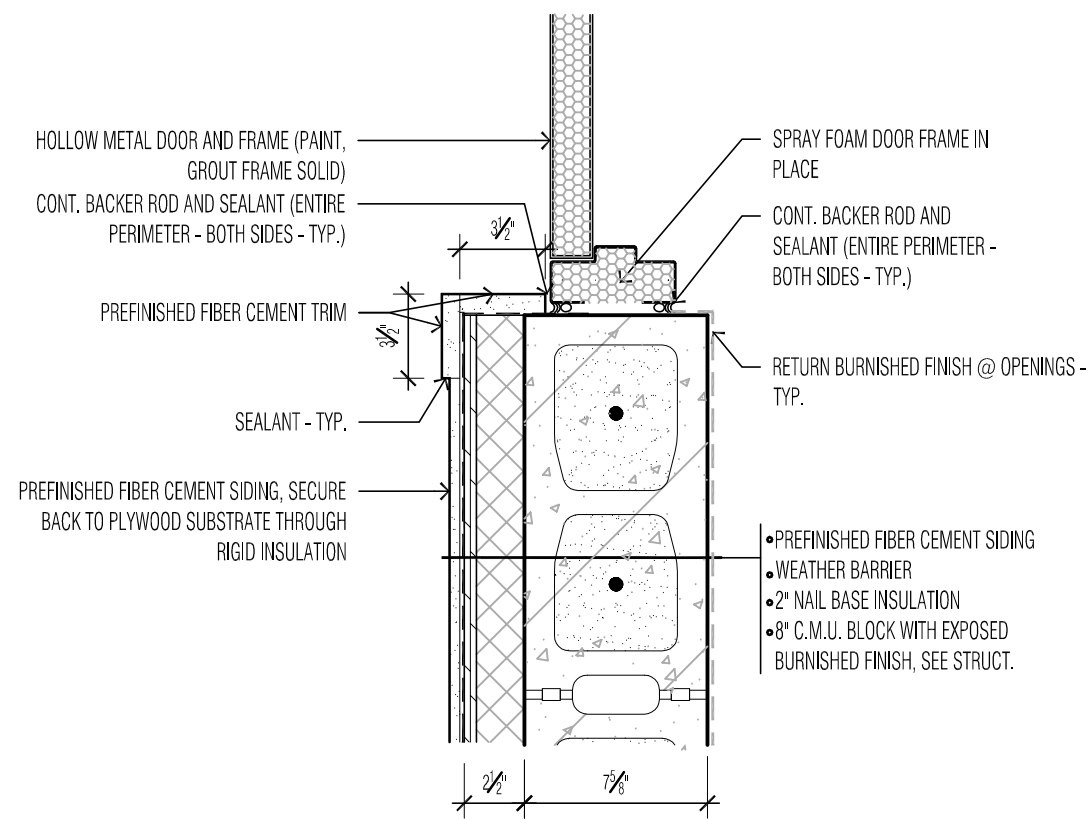
OERTEL
ARCHITECTS

1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105

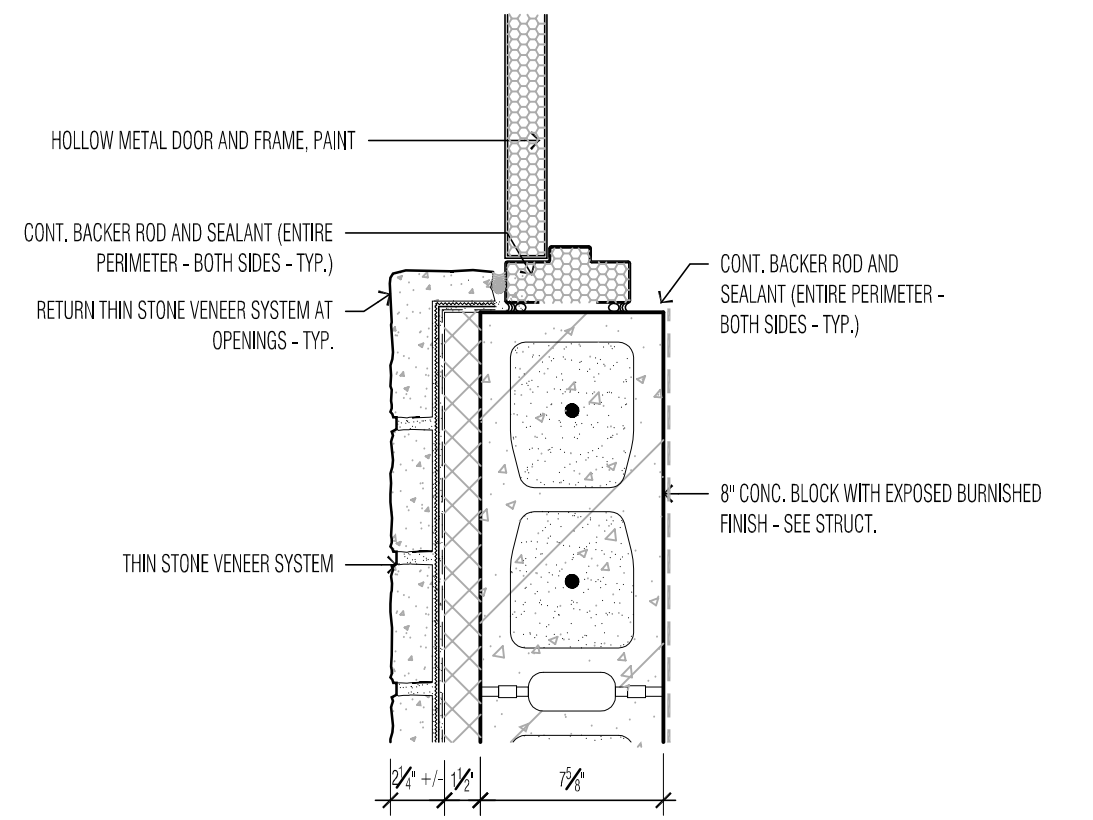
(651) 696-5186
www.oertelarchitects.com



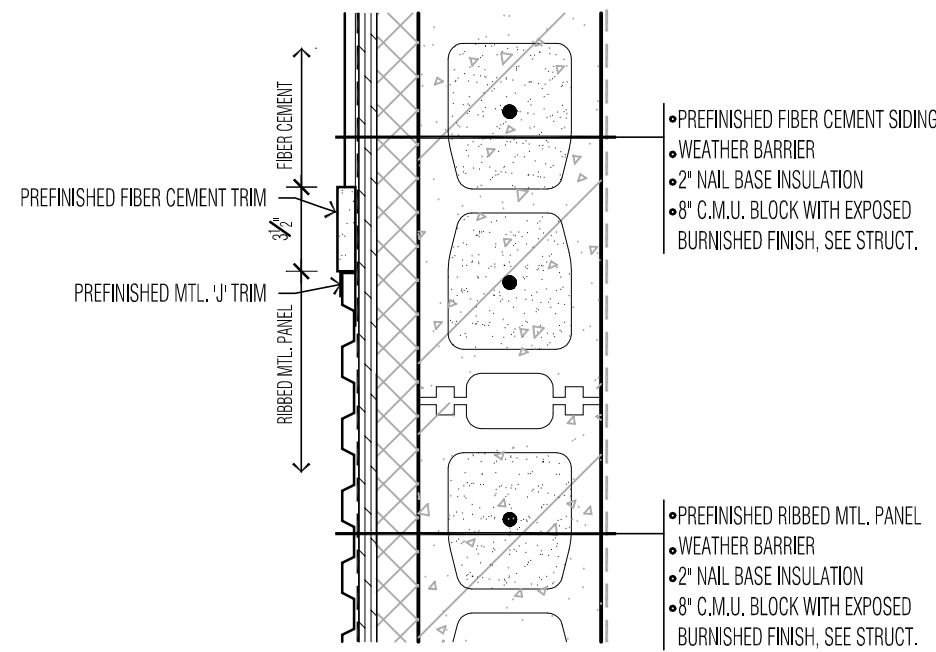
2 PLAN DETAIL - TYP. OUTSIDE CORNER
1/A101 1 1/2" = 1'-0"



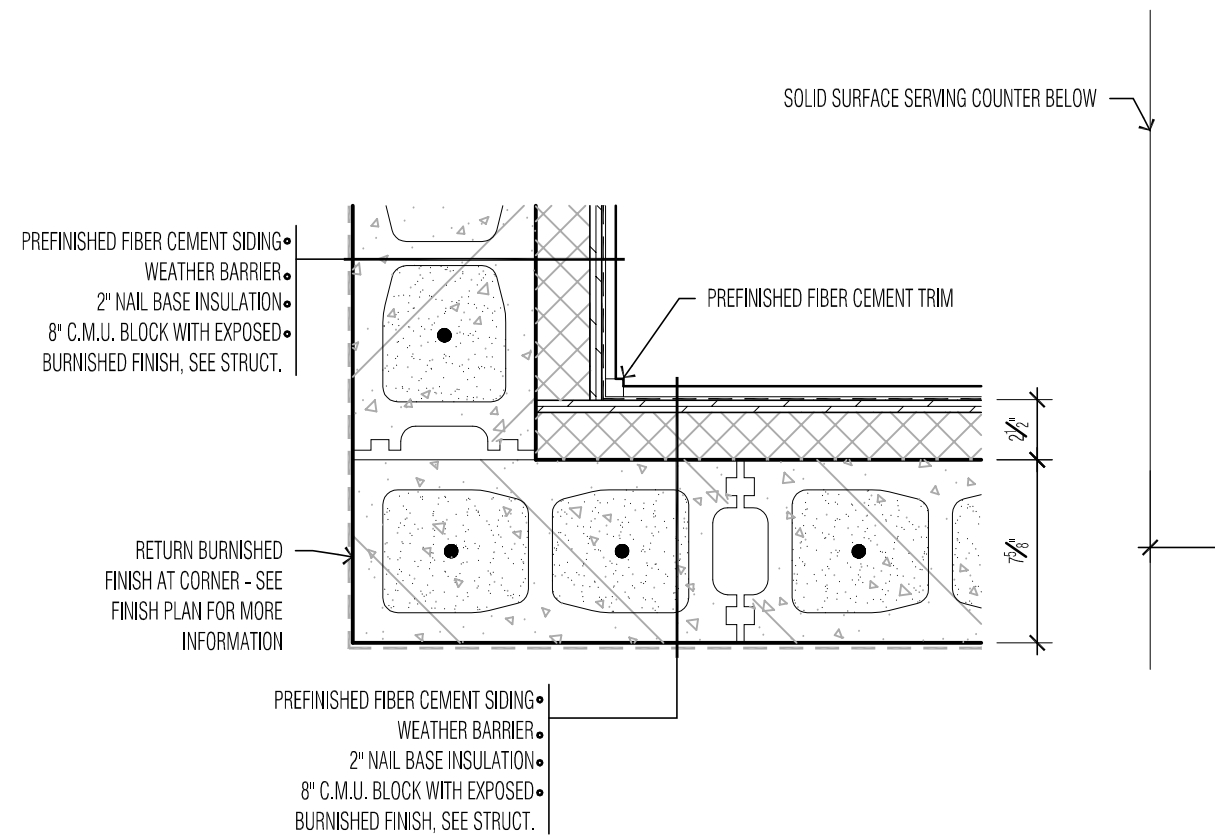
3 PLAN DETAIL - DOOR @ FIBER CEMENT
1/A101 1 1/2" = 1'-0"



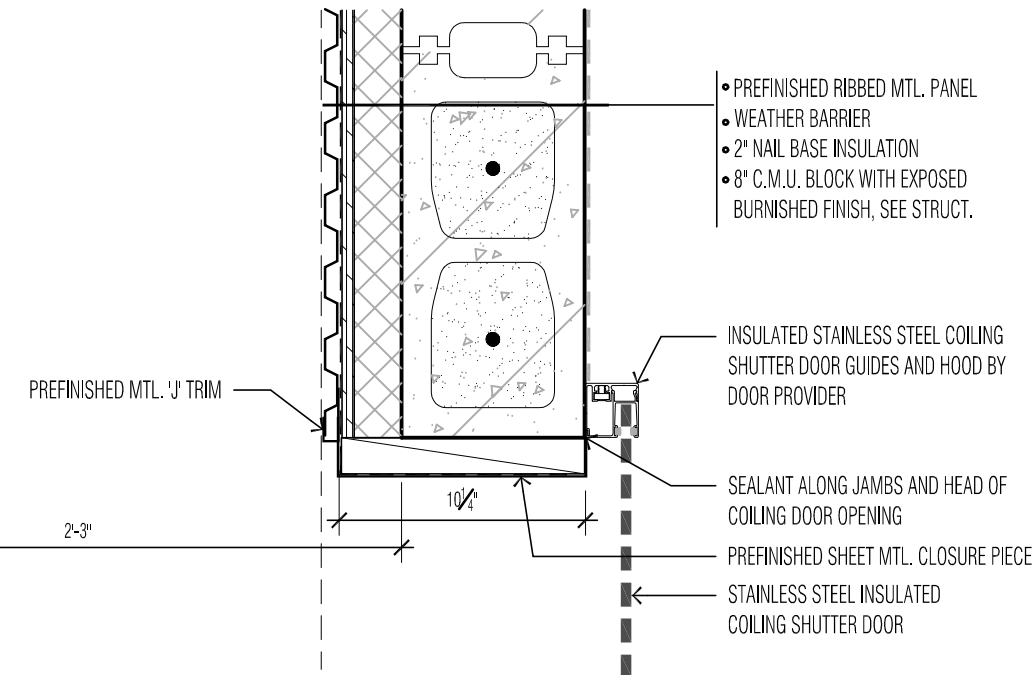
4 PLAN DETAIL - DOOR @ STONE BASE
1/A101 1 1/2" = 1'-0"



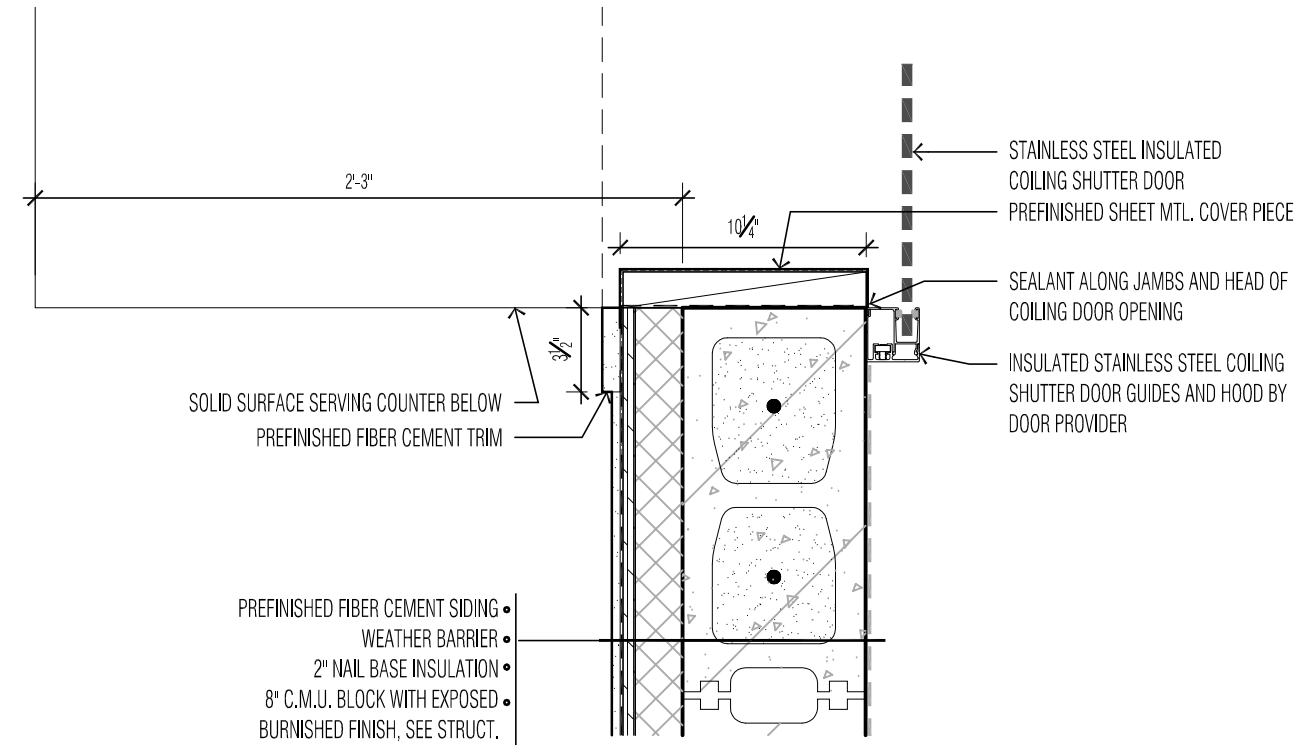
1 PLAN DETAIL - TYP. OUTSIDE CORNER
1/A101 1 1/2" = 1'-0"



5 PLAN DETAIL - TYP. INSIDE CORNER
1/A101 1 1/2" = 1'-0"



6 PLAN DETAIL - COILING SHUTTER
1/A101 1 1/2" = 1'-0"



7 PLAN DETAIL - COILING SHUTTER
1/A101 1 1/2" = 1'-0"

REVISIONS / ISSUE

NO.	DATE	DESCRIPTION
0	08/12/22	BID SET

PROJECT NAME:

SOUTH VALLEY PARK PHASE 1 IMPROVEMENTS

SOUTH VALLEY PARK
2810 70TH ST E
INVER GROVE HEIGHTS, MN 55076

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 ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

Signature
Thomas Stromsodt

Name
Thomas Stromsodt

License #
48038

Date
08/12/2022

PROJECT NUMBER:
21-07

DATE OF ISSUE:
AUGUST 12, 2022

DRAWN BY:
TRS/DCE

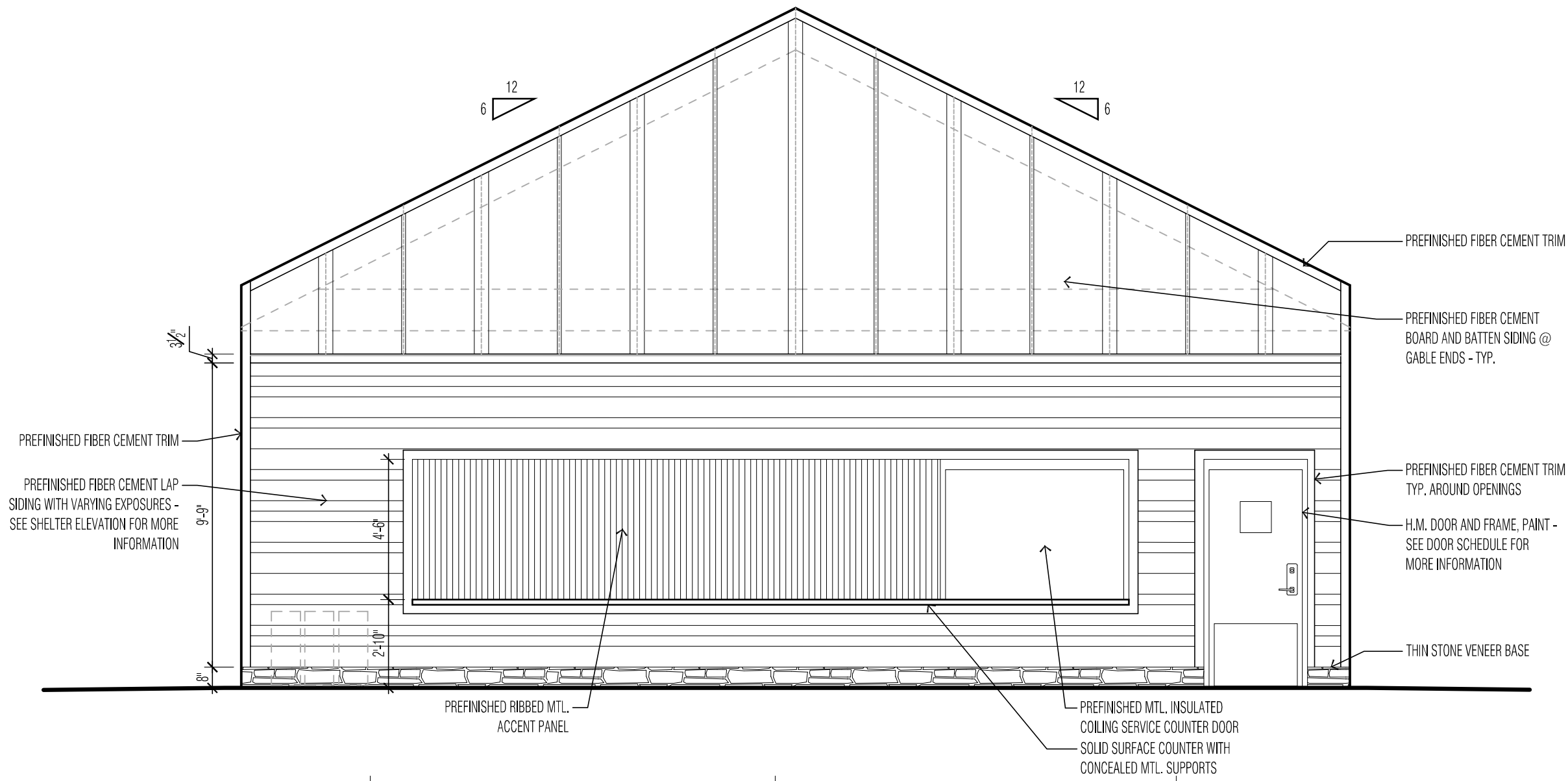
CHECKED BY:
TRS

SHEET NAME:

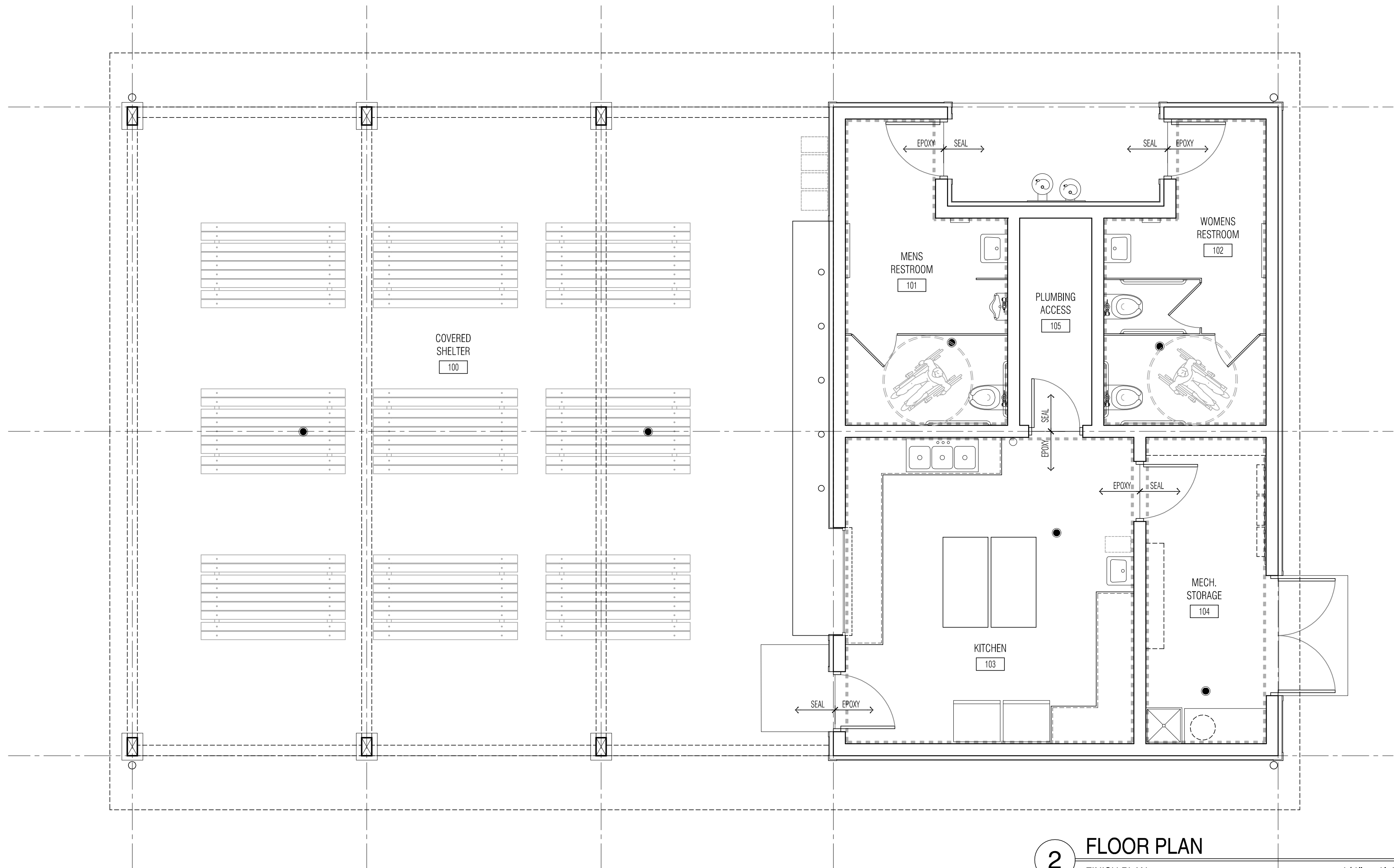
DETAILS

SHEET NO:

A502



1 ELEVATION
SERVICE COUNTER
1/4" = 1'-0"



2 FLOOR PLAN
FINISH PLAN
1/4" = 1'-0"

DOOR AND FRAME SCHEDULE											
DOOR NO.	DOOR					FRAME			HARDWARE GROUP	LABEL MINUTES	REMARKS
	TYPE	WIDTH	HEIGHT	THICK	MAT'L	TYPE	MAT'L	WIDTH			
101	D1	3'-0"	7'-0"	1 3/4"	H.M.	F1	H.M.	3'-4"	-	-	EXTERIOR DOOR, INSULATE
102	D1	3'-0"	7'-0"	1 3/4"	H.M.	F1	H.M.	3'-4"	-	-	EXTERIOR DOOR, INSULATE
103	D1	3'-0"	7'-0"	1 3/4"	H.M.	F1	H.M.	3'-4"	-	-	EXTERIOR DOOR, INSULATE
104A	D1	3'-0"	7'-0"	1 3/4"	H.M.	F1	H.M.	3'-4"	-	-	EXTERIOR DOUBLE DOOR, INSULATE
104B	D1	3'-0"	7'-0"	1 3/4"	H.M.	F1	H.M.	3'-4"	-	-	-
105	D1	2'-0"	7'-0"	1 3/4"	H.M.	F1	H.M.	3'-4"	-	-	-

ROOM FINISH SCHEDULE																
ROOM NO.	ROOM NAME	FLOOR		BASE	WALL								CEILING			REMARKS
					NORTH		WEST		SOUTH		EAST					
		MAT'L	FINISH	MAT'L	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	HEIGHT	
100	SEATING AREA	SEE CIVIL	SEE CIVIL	-	OPEN/GLULAM COLUMNS	PRE-FIN.	OPEN/GLULAM COLUMNS	PRE-FIN.	OPEN/GLULAM COLUMNS	PRE-FIN.	STEEL/FIBER CEMENT	PRE-FIN.	WOOD DECKING	VARIES	SEAL	-
101	MENS RESTROOM	CONC.	EPOXY	WNYL	C.M.U.	BURNISHED	C.M.U.	BURNISHED	C.M.U.	BURNISHED	C.M.U.	BURNISHED	GYP. BOARD	10'-11 3/8"	PAINT	-
102	WOMENS RESTROOM	CONC.	EPOXY	WNYL	C.M.U.	BURNISHED	C.M.U.	BURNISHED	C.M.U.	BURNISHED	C.M.U.	BURNISHED	GYP. BOARD	10'-11 3/8"	PAINT	-
103	KITCHEN	CONC.	EPOXY	WNYL	C.M.U.	BURNISHED	C.M.U.	BURNISHED	C.M.U.	BURNISHED	C.M.U.	BURNISHED	GYP. BOARD	10'-11 3/8"	PAINT	-
104	MECH./STORAGE	CONC.	SEAL	-	GYP. BOARD	PAINT	GYP. BOARD	PAINT	GYP. BOARD	PAINT	GYP. BOARD	PAINT	GYP. BOARD	10'-0"	PAINT	-
105	PLUMBING ACCESS	CONC.	SEAL	-	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	C.M.U.	PAINT	GYP. BOARD	10'-11 3/8"	PAINT	-

- GENERAL NOTES:
- FINAL PAINT COLORS & LOCATIONS TO BE DETERMINED AT TIME OF SHOP DRAWING SUBMITTAL
 - ITEMS TO BE PAINTED INCLUDE ALL EXPOSED: H.M. FRAMES AND DOORS, GYP. BOARD CEILINGS, ANY EXPOSED PIPING / CONDUIT.
 - REFER TO FLOOR FINISH PLAN FOR INSTALLATION PATTERNS
 - PROVIDE MOISTURE RESISTANT GYP. BOARD AT ALL WET LOCATIONS
- INDICATES LOCATIONS OF EXPOSED BURNISHED BLOCK FINISH

DOOR TYPES

FRAME TYPES

DOOR

WIDTH

HEIGHT

HOLLOW METAL DOOR
- PAINT
D1

DOOR

WIDTH

HEIGHT

HOLLOW METAL FRAME
- PAINT
#1 HEAD U.A.L.
F1

NOTE:
FIELD VERIFY ALL OPENING DIMENSIONS
PRIOR TO FABRICATING DOORS, FRAMES AND
OPENINGS.

FOAM IN PLACE ALL EXTERIOR H.M. FRAMES

PROVIDE INTERIOR RACEWAYS AT ALL H.M.
DOOR FRAMES FOR FUTURE ACCESS
CONTROL

CONSULTANT:

OERTEL
ARCHITECTS
1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105
(651) 696-5186
www.oertelarchitects.com

REVISIONS / ISSUE			
NO.	DATE	DESCRIPTION	BID SET
0	08/12/22	BID SET	

SOUTH VALLEY PARK
PHASE 1 IMPROVEMENTS

SOUTH VALLEY PARK
2810 70TH ST E
INVER GROVE HEIGHTS, MN 55076

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 ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

Signature
Thomas Stromsodt

Name
Thomas Stromsodt

48038 08/12/2022
License # Date

PROJECT NUMBER: 21-07

DATE OF ISSUE: AUGUST 12, 2022

DRAWN BY: TRS/DCE

CHECKED BY: TRS

SHEET NAME:

SCHEDULES

SHEET NO:

A601



CONSULTANT:



OERTEL
ARCHITECTS

1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105

(651) 696-5186
www.oertelarchitects.com

REVISIONS / ISSUE

NO.	DATE	DESCRIPTION
0	08/12/22	BID SET

**SOUTH VALLEY PARK
PHASE 1 IMPROVEMENTS**

SOUTH VALLEY PARK
2810 70TH STE
INVER GROVE HEIGHTS, MN 55076

PROJECT NAME:

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 ARCHITECT
UNDER THE LAWS OF THE STATE OF
MINNESOTA.

Thomas Stromsodt
Signature

Thomas Stromsodt
Name

48038 08/12/2022
License # Date

PROJECT NUMBER: 21-07

DATE OF ISSUE: AUGUST 12, 2022

DRAWN BY: TRS/DCE

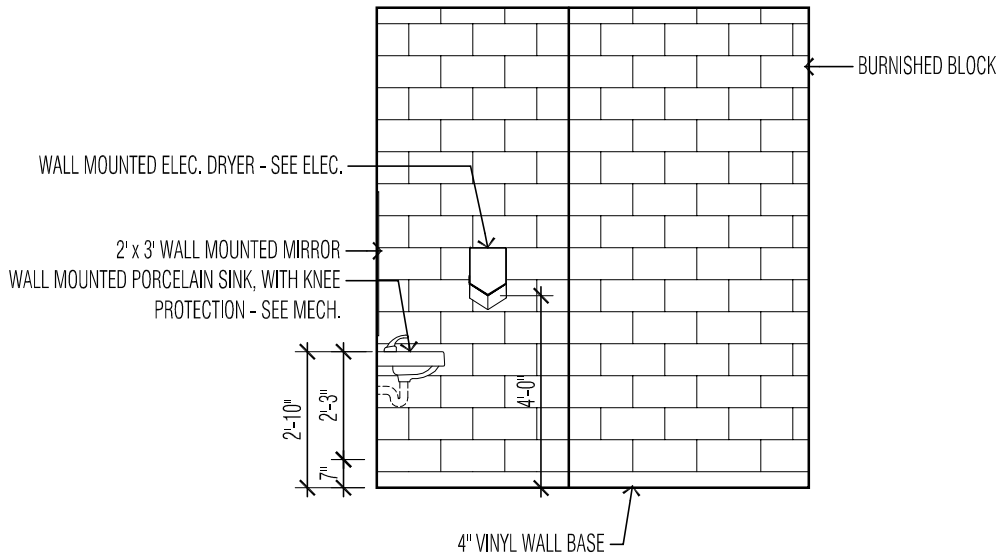
CHECKED BY: TRS

SHEET NAME:

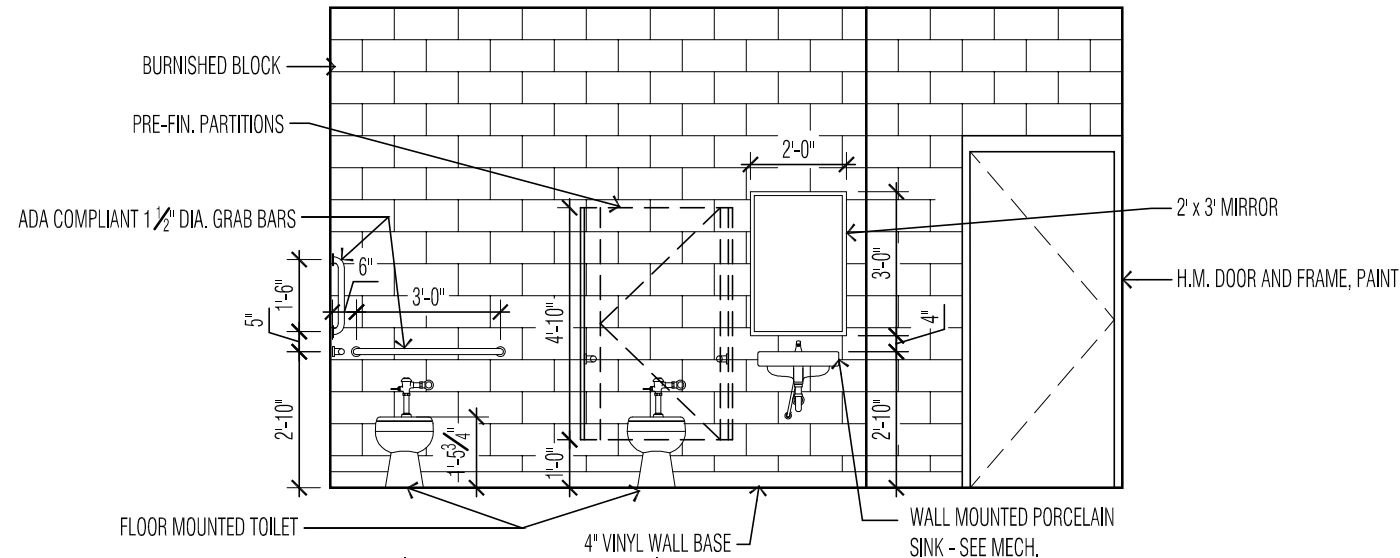
**INTERIOR
ELEVATIONS**

SHEET NO:

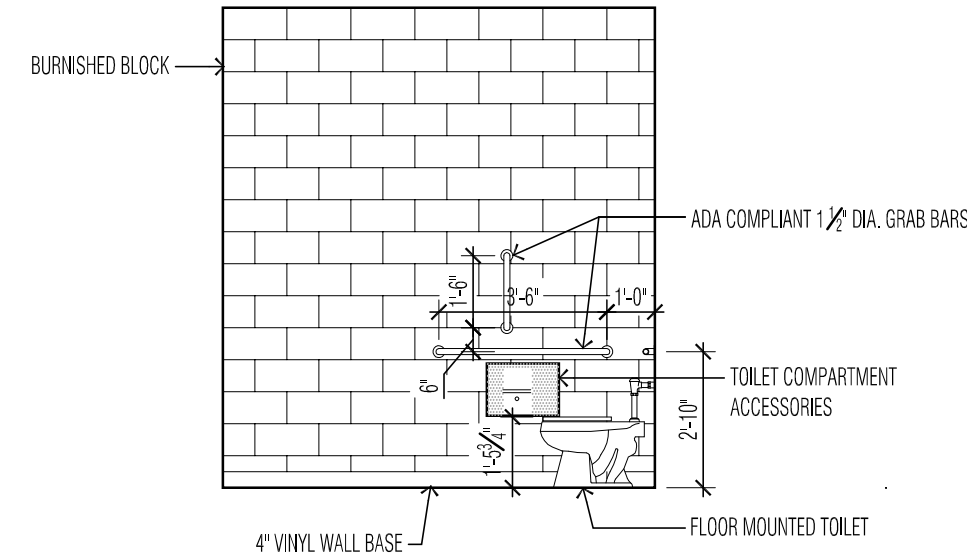
A701



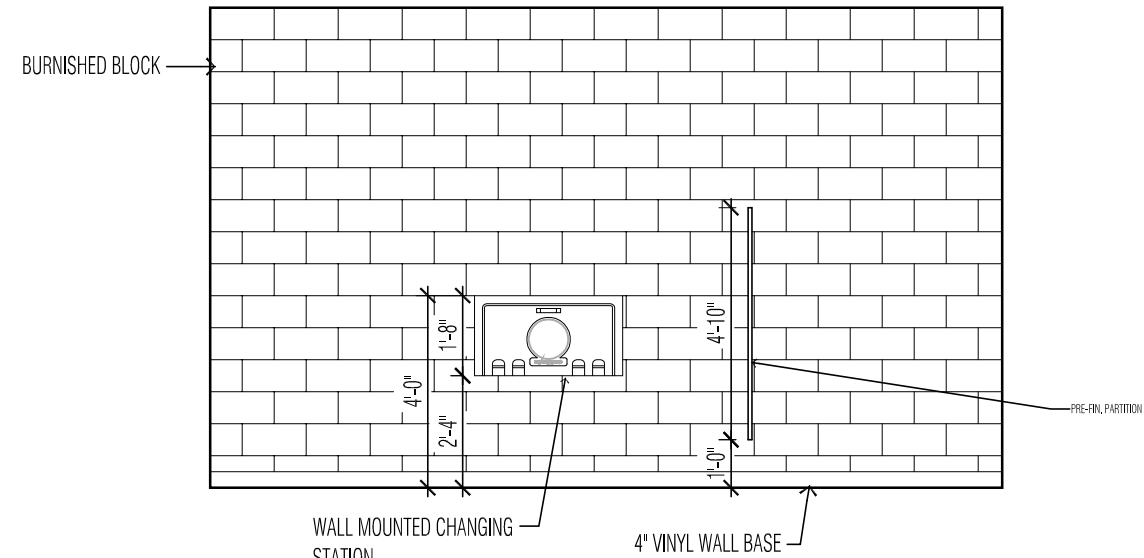
1 RESTROOM ELEVATION
RM 102 - NORTH 1/4" = 1'-0"



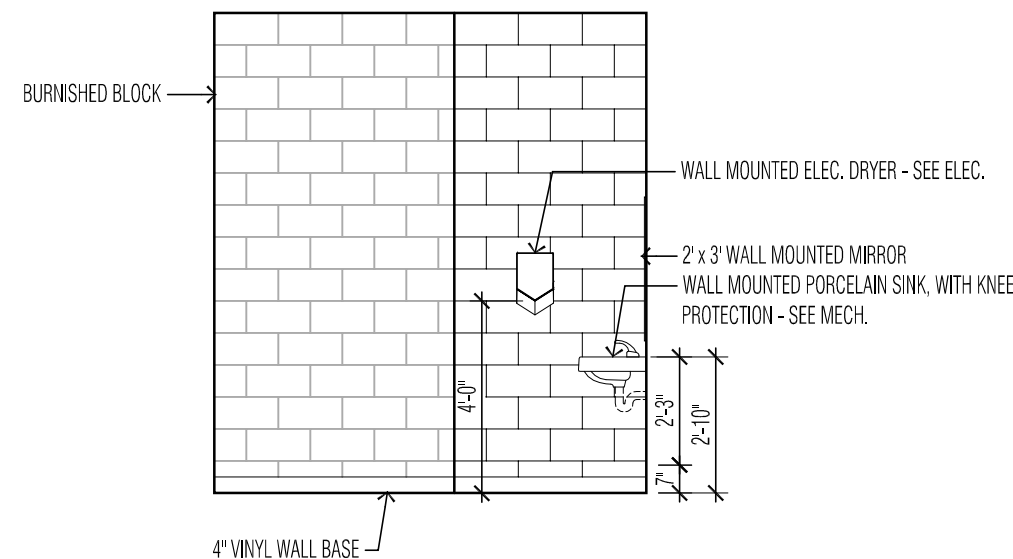
2 RESTROOM ELEVATION
RM 102 - WEST 1/4" = 1'-0"



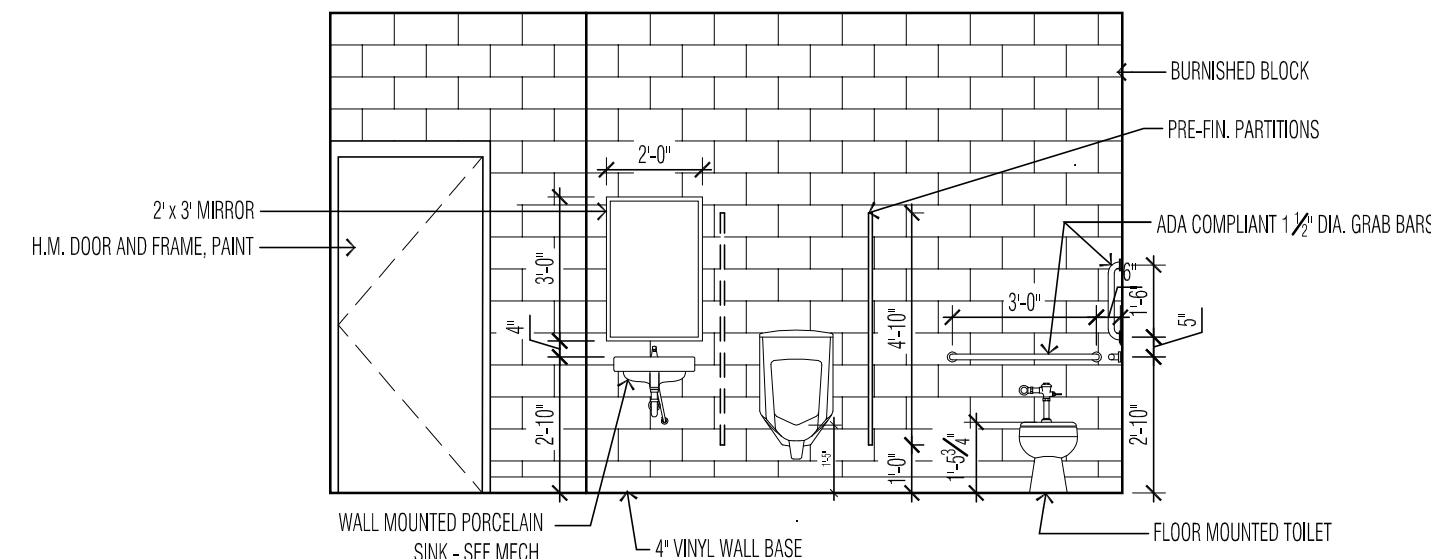
3 RESTROOM ELEVATION
RM 102 - SOUTH 1/4" = 1'-0"



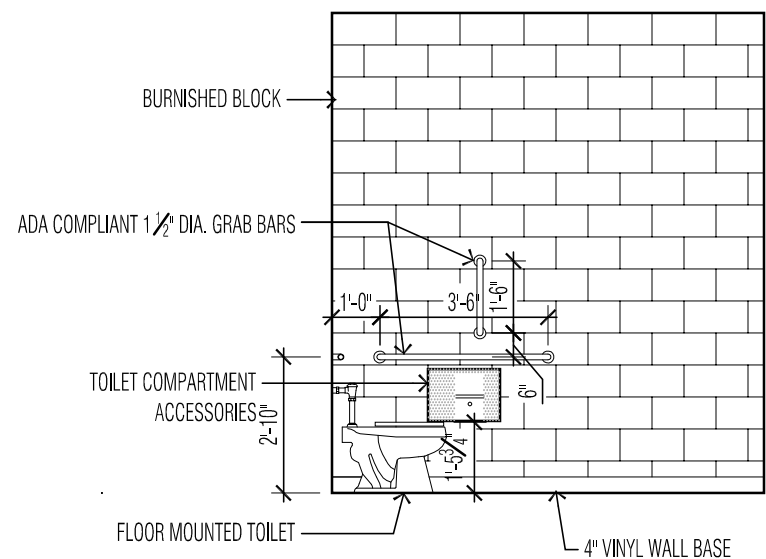
4 RESTROOM ELEVATION
RM 102 - EAST 1/4" = 1'-0"



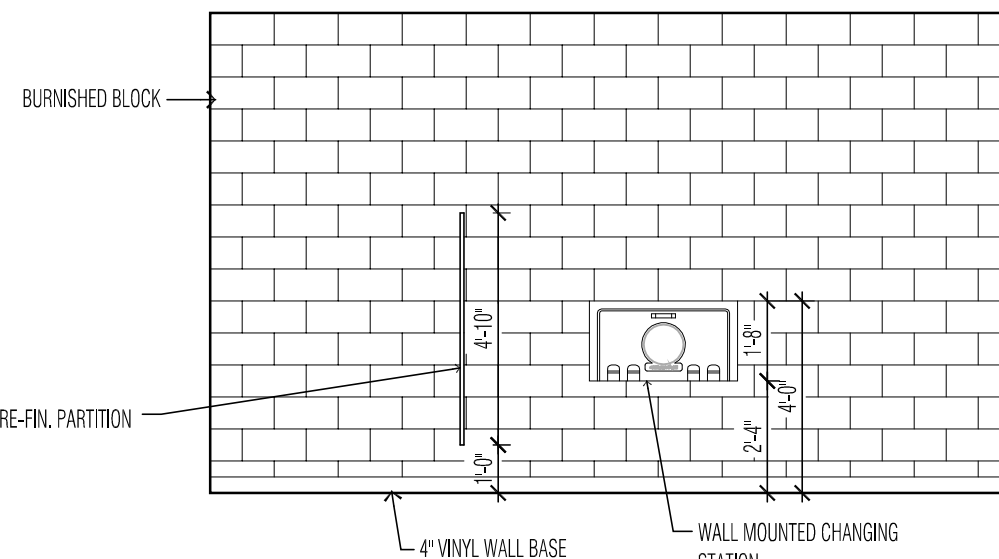
5 RESTROOM ELEVATION
RM 101 - SOUTH 1/4" = 1'-0"



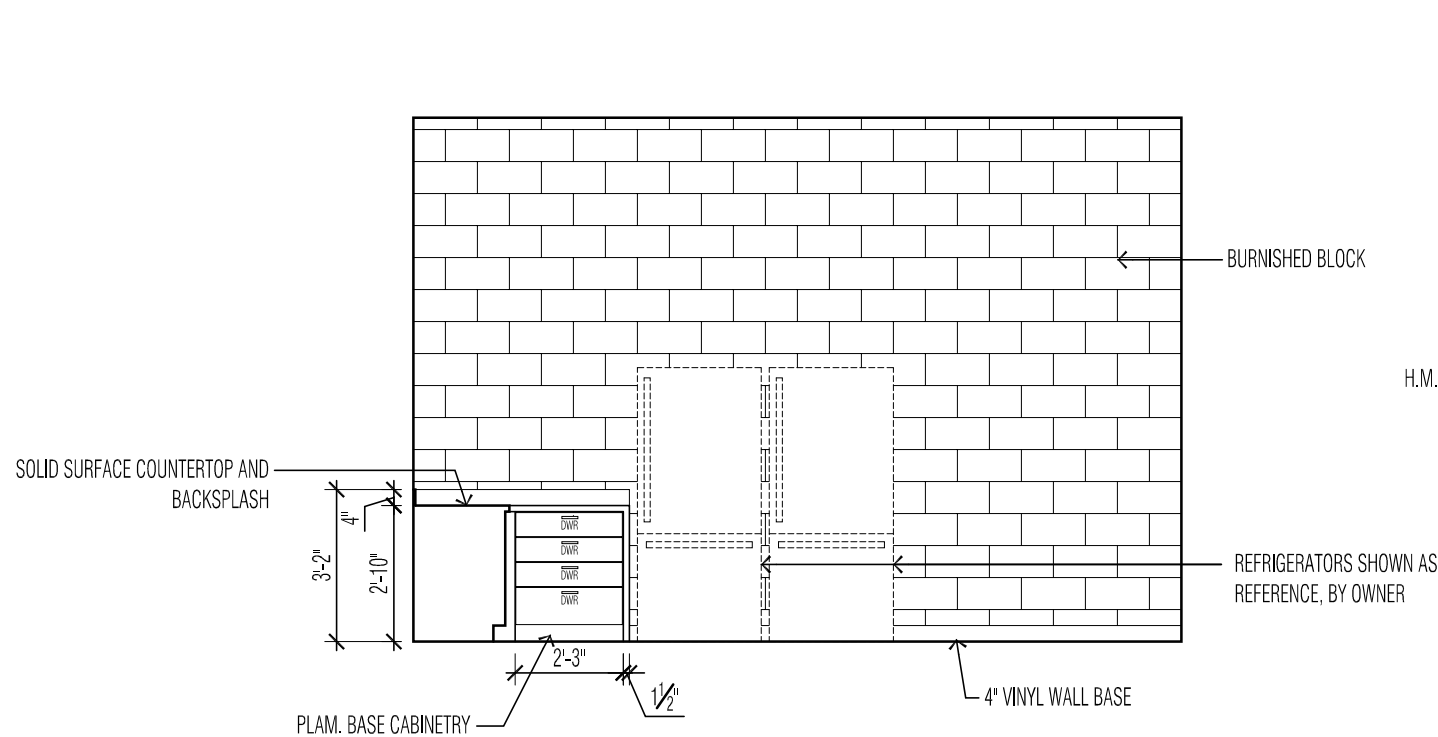
6 RESTROOM ELEVATION
RM 101 - EAST 1/4" = 1'-0"



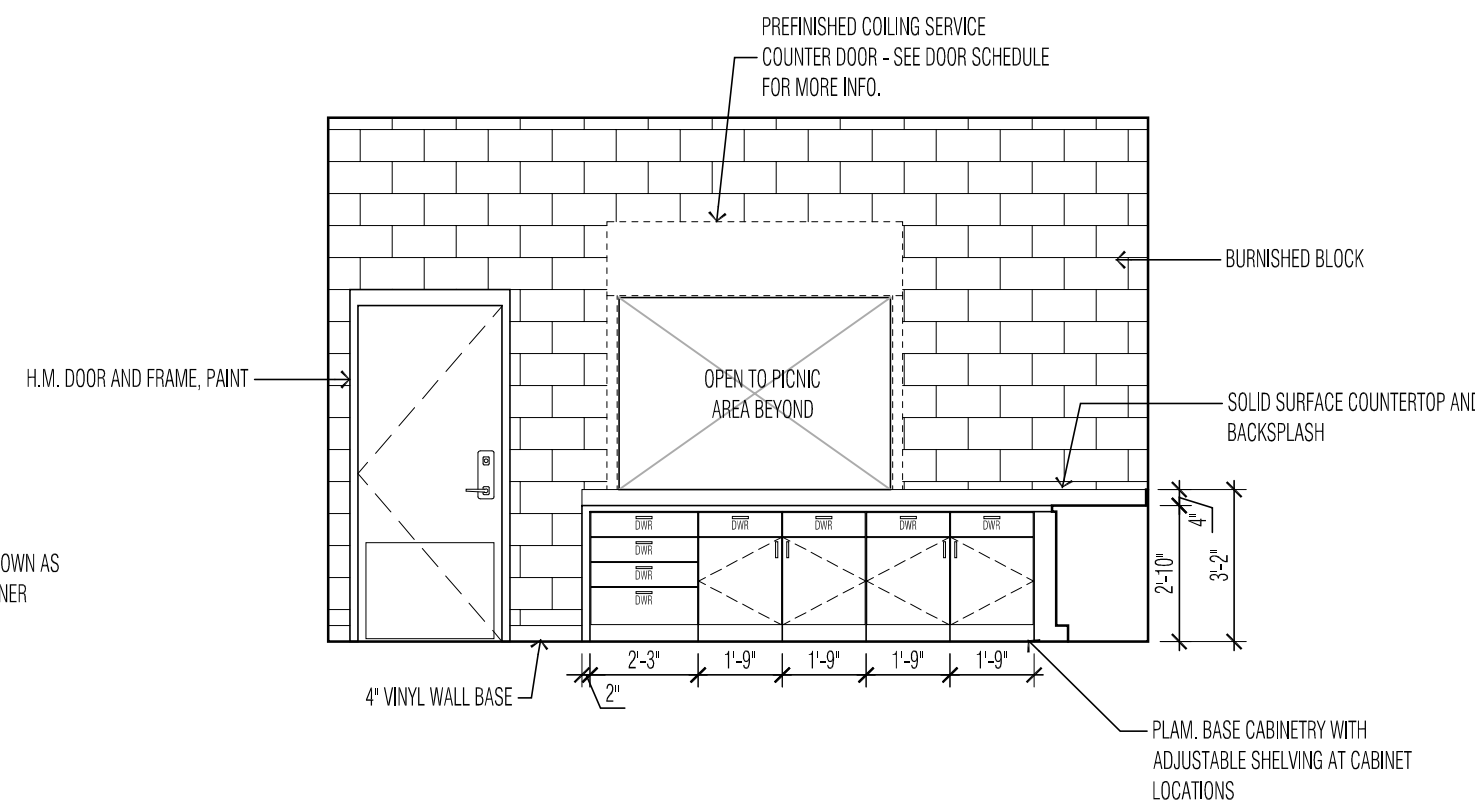
7 RESTROOM ELEVATION
RM 101 - NORTH 1/4" = 1'-0"



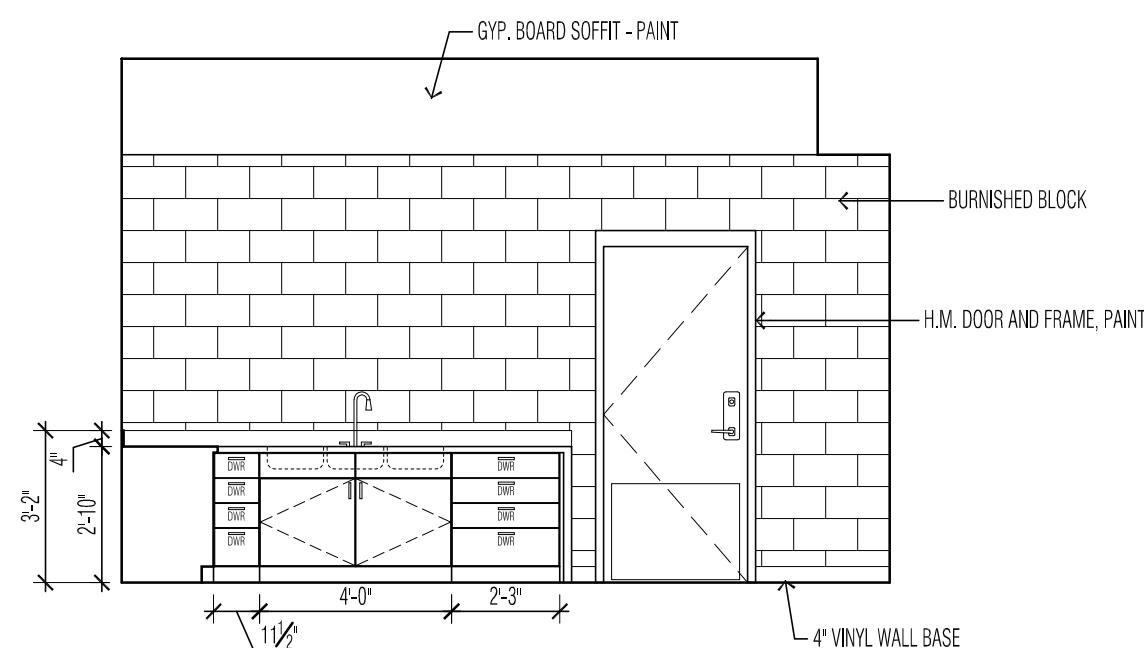
8 RESTROOM ELEVATION
RM 101 - WEST 1/4" = 1'-0"



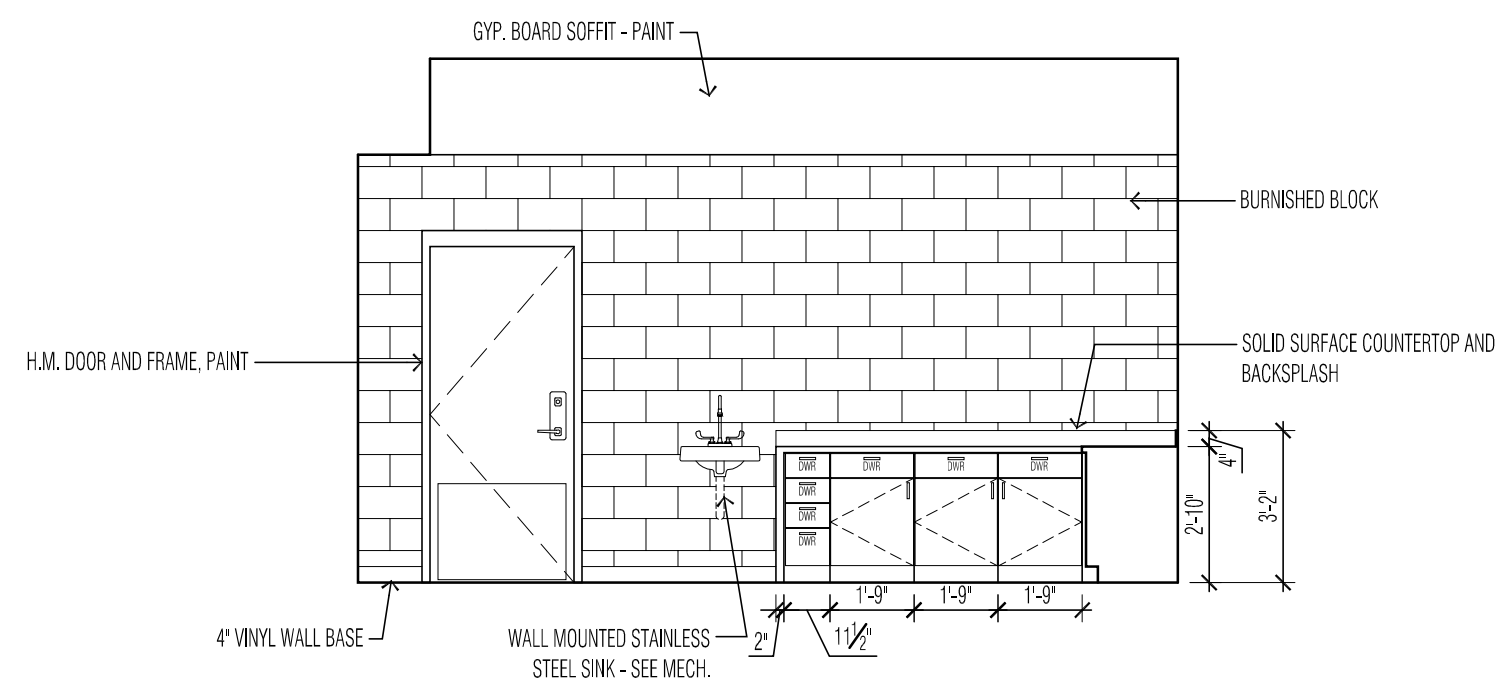
9 KITCHEN ELEVATION
RM 103 - SOUTH 1/4" = 1'-0"



10 KITCHEN ELEVATION
RM 103 - WEST 1/4" = 1'-0"



11 KITCHEN ELEVATION
RM 103 - NORTH 1/4" = 1'-0"



12 KITCHEN ELEVATION
RM 103 - EAST 1/4" = 1'-0"



1795 ST. CLAIR AVENUE

www.oertelarchitects.com

—

Office: (651) 407-6056

S / ISSUE

SOUTH VALLEY PARK

PHASE 1 IMPROVEMENTS

SOUTH VALLEY PARK

INVER GROVE HEIGHTS, MN 55076

Richard L. Mervel

Name

License #	Date
-----------	------

12601601-81104-3412

20-05

DATE OF ISSUE: 08/12/22

JPC

Page 190 of 303

STRUCTURAL WOOD FRAMING

All dimension lumber sizes given on drawings are nominal dimensions.

All engineered lumber sizes given on drawings are actual dimensions.

Provide full bearing width on support studs each end for lintels and headers.

Bear wood joists the full width of supporting members stud walls, beams, etc.) unless noted otherwise.

Joists and girders shall be notched to provide full bearing of the member unless otherwise shown. Do not overcut.

Bolts in wood are machine bolts, unless otherwise noted. Machine bolts shall have a shank diameter within 1/64" of that specified. Bolts are ASTM 307 steel.

All non-load bearing walls to have (2) - 2x4 headers for openings up to 6'-0".

Bolt holes shall be 1/32" oversize. Where steel is connected to wood, holes in steel shall be 1/16" oversize. Provide standard cut washers under head and nut where bearing is against wood. Washers will not be required under head of carriage bolts. Length of thread shall be such that not more than 1/2" of thread shall bear against wood. All nuts shall be tightened when placed and re-tightened at completion of the job or immediately before closing with finish construction. Bolt holes in wood members, including glu-lam, shall be drilled on the job site. Where steel side plates are used for connection, the plate shall be used as a template.

Unless noted otherwise expansion bolt wood 2x sill plates to concrete or filled masonry cells with minimum 5/8" diameter Simpson Titen HD Screw anchor or approved equal (min. 5" embedment) at 72" o.c. and within 6" of end of wall, minimum of 2 anchorages per sill plate, unless otherwise noted.

Wood nailers attached to structural steel with A307 threaded rods unless noted otherwise.

Roof sheathing shall be 3/4" APA rated plywood or OSB. Attach sheathing to roof framing members with 8d nails (0.113" diameter x 2 1/2" long) at 6" o.c. at panel edges and 12" o.c. at intermediate supports.

Floor sheathing shall be 3/4" APA rated plywood or OSB. Attach sheathing to roof framing members with 10d nails (0.128" diameter x 3" long) at 6" o.c. at panel edges and 12" o.c. at intermediate supports.

All shear walls shall be sheathed conforming to the requirements of APA-Structural 1.

Roof sheathing shall be APA-span rating 48/24, Exposure 1.

Oriented Strand Board (OSB) complying with the listed requirements is an acceptable wall sheathing and subfloor material.

Wood sheathing used structurally shall extend continuously behind all finishes, and shall be protected by an unbroken layer of moisture tight paper when applied to exterior surfaces.

Sheathing joints shall be backed by a single common member. The edge of the wood sheet shall lap a minimum of 3/4" with the backing member. The nails shall be at least 3/8" from the edge of the sheet and from the edge of the backing member. In general sheets shall be 4'-0" x 8'-0" and shall be laid with face plies across framing members and with end joints staggered 4'-0".

No panel shall be used which is less than 24" in width on floors and roofs. Floor and roof sheathing shall be continuous across 2 spans,

The nailing along the end edge of the sheet and for all other contacts shall be as called for under the Nailing Schedule below and as shown

Minimum Permissible Nailing Schedule:

Provide the following minimum permissible nailing required at all wood intersections unless more stringent nailing is noted otherwise on

Studs to Bearing:	2x6 & smaller	2-10d toenails ea side
Sole Plates:	Perp to joist	2-20d ea joist
	Parallel to joists	20d @ 9" oc
Dbl 2" Top PL's:	Lower plate to stud	2-16d
	Upper to lower (plate lap)	16d @ 12" oc min lap stagger 48" w/24-16d ea lap
	Lap at intersections	3-16d
	Plywood to ea top PL	8d @ 6" oc stagger
Joists, Rafters Or Trusses:	Perp to bearing	2-10d toenails ea side
	Parallel to bearing	10d toenails @ 12" oc stagger
Double Joist & Built-Up Beams:	10" or less in depth	16d @ 12" oc stagger
	More than 10" deep	1/2" bolts @ 24" oc stagger
	To bearings	2-10d toenails ea side
	To joist or rafters	2-10d toenails ea side
Cross Bridging:	To joists or rafters	2-8d ea end
Multiple studs:	Each layer	16d @ 12" oc
Plywood sheathing:	At edges of sheet	8d @ 6" oc
	All other contacts	8d @ 12" oc

Nailing not noted above or on details shall be at least two nails at all contact points, use 8d through 1" material, 16d through 2" material, 40d through 3" material, and 30d through 2" material on face of sheathing.

All nails shall be common or box wire nails. Where nails tend to split the wood, nail holes shall be pre-drilled.

For plywood nailing, 9 gage x 2 1/8" cut nails may be used in lieu of 8d common wire nails.

Machine Applied Nailing:

Use of machine nailing is acceptable. Machine nailing will not be approved in 5/16" plywood. If nail heads penetrate the outer ply more than would be normal for hand nailing or if minimum allowable edge distances are not maintained the performance will be deemed

Wood Construction Connectors:

Manufactured connectors indicated on drawings shall be "Simpson Strong Tie" or approved equal.

Alternate manufacturer's connectors shall have equivalent capacities for the specified application.

Properly install connectors in strict accordance with manufacturer's recommendations type, number and size of fasteners, embedment in concrete or other criteria affecting capacity.

Wood Trusses - General:

Design floor trusses for L/480 and roof trusses for L/360 maximum live load deflection. Max deflection = 1".

Fabricate, supply and erect wood trusses as shown on the drawings and as specified.

Manufacturer shall furnish design drawings bearing the seal and registration number of a design professional licensed in the state where the trusses are to be installed. The drawings shall reflect the span, loads, spacing, and arrangement of the trusses required to meet the criteria of the plans. Drawings shall be submitted to architect and structural engineer prior to fabrication.

Trusses shall be handled during fabrication, delivery, and at job site so as not to be subjected to excessive lateral bending. Erection shall be in accordance with handling and erecting wood trusses HET-80, TPI. Trusses must be set and secured level and plumb, and in correct location. Cutting and altering of trusses is not permitted.

Trusses are to have temporary bracing as per the Recommended Design Specifications for Temporary Bracing of Metal Plate Connected Wood Trusses (DSB-89) by the Truss Plate Institute (TPI).

Brace trusses sufficiently during erection to prevent toppling or dominoing. Install all bracing before placing loads atop trusses.

Plated Wood Trusses:

Trusses shall be designed in accordance with national design specification for wood construction, NFPA and design specifications for Light Metal Plate Connected Wood Trusses, TPI and the local code of jurisdiction.

The grade mark or a lumber inspection bureau or agency approved by the American Lumber Standards Committee shall identify lumber

Connector plates shall meet or exceed ASTM A446 steel.

Trusses shall be fabricated in compliance with requirements in quality control standard QST-88, TPI.

Glue Laminated Truss and Misc Framing - General

All information pertaining to Glue Laminated trusses trusses and members indicated on drawings is for design intent only, including; configuration, sizes and connections. Glulam supplier to submit design calculations and shop drawings signed/sealed by a registered engineer in the State of Minnesota.

STRUCTURAL STEEL

All structural steel shall be fabricated and erected according to latest AISC specifications.

All welding shall be performed by AWS certified welders and comply with the AWS Structural Welding Code.

All field welding shall be shown on the steel erection drawings with pre-qualified AWS weld designations.

Use standard framed beam connections - two (2) clip angles shop welded or bolted to beam web and field bolted to supporting members with 3/4" minimum diameter A325 bolts unless noted otherwise. Provide calculations sealed by a registered professional engineer in the state in which the project is located. Design connections for the reaction indicated (10 kip minimum) and provide a connection for either the indicated reaction or the minimum connection listed below, whichever is greater. The design shall account for all copes, eccentricities, and allowable stresses per volumes I and II of the AISC Manual of Steel Construction. Each connection shall have a minimum of two (2) rows of bolts.

Minimum Bolt Rows	Shape
2	W8, W10
3	W12, W14
4	W16, W18, W21
5	W24
6	W27
7	W30, W33, W36

Temporary erection bolts, clips, hangers, and temporary bracing shall be furnished as required by the steel erector.

Unless noted, all steel shall be cleaned and painted with one coat of primer before leaving the shop. Touch up field splices, connections, welds, and abrasions of steel with touch up shop paint after installation.

Steel to be fireproofed shall not be primed. Coordinate exact requirements with architect.

BOLTS INSTALLED IN CONCRETE

Anchor bolts cast in concrete shall be ASTM F1554 unless indicated otherwise. See design stresses this sheet for steel grades.

Expansion bolts shall be HILTI Kwik Bolt TZ, SIMPSON Strong-Bolt 2, or approved equal.

Adhesive anchors shall be HILTI HY 200, SIMPSON SET-XP, or approved equal.

Adhesive anchors require special inspection.

Screw anchors shall be HILTI KH-EZ, SIMPSON TITEN HD, or approved equal.

FUTURE EXPANSION

This project has not been specifically designed for future expansion.

NOTES REGARDING USE OF DRAWINGS

Drawing scales are noted for reference only. Not all items are drawn to scale, and drawings should not be scaled to obtain dimensions or elevations not indicated.

Unless specifically indicated, bolts shown in details are for illustrative purposes only and do not represent the actual number of bolts required. See information under STRUCTURAL STEEL for connection design requirements.

SPECIAL STRUCTURAL INSPECTIONS AND TESTING

In accordance with IBC 2015, Chapter 17, Special Structural Tests and Inspections are required for this project, in addition to material testing.

The owner will provide the following special structural tests and inspections, per the requirements of IBC Sections 1704.3 and 1705:

A) Excavation and Backfill (IBC Section 1705.6 and Table 1705.6):

Verify footing excavation for suitability for planned footing. Verify materials used for compacted backfill, and test compacted backfill for specified compaction from project soils report and/or specifications.

B) Concrete (IBC Section 1705.3 and Table 1705.3):

Testing:	
	Submit proposed mix design of each class of concrete to inspection and testing firm for review prior to commencement of concrete operations.
	Compressive Strength Tests: ASTM C 39/C 39M. For each test, mold and cure four concrete test cylinders. Obtain test samples for each class of concrete poured each day. One test for the first 25 cubic yards and an additional test for each 50 cubic yards thereafter, or portion thereof. Test one cylinder at seven days, two at 28 days, and store one cylinder for possible further use.
	Take one additional test cylinder during cold weather concreting, cured on job site under same conditions as concrete it represents.
	Perform one slump test for each set of test cylinders taken, following procedures of ASTM C 143/C 143M.
	Measure air content and temperature for each concrete test.
	The testing agency shall report test results in writing to Architect and Contractor within 24 hours of test.

Reinforcing Steel: Inspect and report on concrete reinforcing steel for all concrete footings, walls, and piers. Inspect steel size and placement in accordance with ACI 318.

CONCRETE MASONRY ASSEMBLIES

All concrete masonry units shall be ASTM C-90, Grade N, Type I units.

All mortar shall be Type S, proportioned by volume according to ASTM C270, except Type M shall be used below grade, unless indicated otherwise.

All grout shall have 3/8" maximum aggregate size and 8" - 10" slump.

All wall openings shall be reinforced with 2 - #5 bars each side minimum. Reinforcing shall extend full wall height vertically and 2'-0" beyond opening horizontally. Each pair of bars shall be grouted solid in one cell, on an axis perpendicular to the wall. Place full-height reinforcing in the first adjacent full-height core and grout core(s) below lintel bearing solid to footing.

See typical details on S301 for masonry wall reinforcing at all openings in CMU walls.

Provide minimum 2-#5 @ 8" oc verticals and matching footing dowels below all beam bearings.

Extend vertical reinforcing from footing to 2" clear of top of wall.

Provide #5 @ 40" oc vertical and footing dowels for all walls on structural drawings, unless indicated otherwise.

Provide 2-#5 continuous with corner bars at all bond beams shown on drawings, unless indicated otherwise.

Splices for vertical and horizontal bars shall lap 72 bar diameters or 24" minimum.

Maximum corefill height is 4'-0" per lift.

When typical vertical wall reinforcing is interrupted by door, window, mechanical, or other wall openings, provide typical vertical wall reinforcing above and below opening, and extend into horizontal bond beams.

Bond beam reinforcement shall be continuous through control joints and at building corners. Lap reinforcement 48 bar diameters or 24" minimum.

Provide 9 gauge galvanized truss type horizontal joint reinforcement at 16" on center in all interior and exterior masonry walls.

Tooth in new block at all joints of new to existing and grout common cells solid, unless indicated otherwise.

Lay up all masonry units in running bond, unless indicated otherwise on structural drawings.

CONCRETE MASONRY WALL LINTELS

Use lintel blocks at all lintel locations.

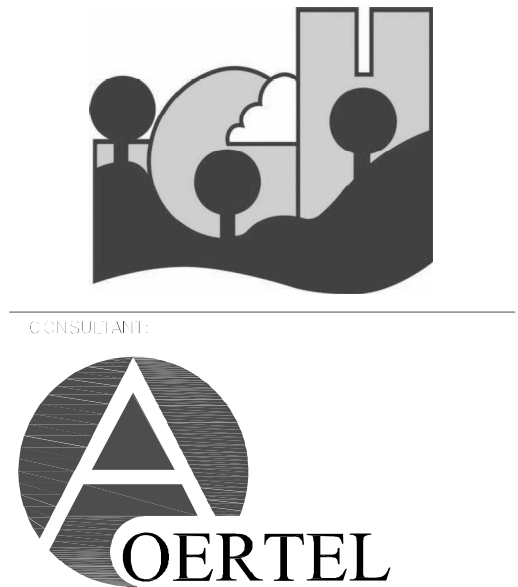
Masonry lintels to bear 8" minimum at jambs. Extend reinforcing full length.

Bear all lintel block and bond beams 8" minimum into supporting walls and extend vertical reinforcing through lintel and bond beams.

Where masonry lintel is continuous over two openings with intermediate support reinforce lintel with two bars top and bottom and provide standard hook on top bars at ends.

All openings in masonry walls not indicated otherwise shall have reinforced concrete masonry lintels as follows:

Openings to 6'-0"	Use 8" deep lintel blocks
Openings above 6'-0" to 12'-0"	Use 16" deep lintel blocks
8", 10", and 12" wide lintels to have 2-#5 bottom bars.	



OERTEL
ARCHITECTS
1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105
(651) 696-5186
www.oertelarchitects.com

Paulson & Clark Engineering
2352 E County Road J
White Bear Lake, MN 55110
Office: (651) 407-6056
www.paulsonclark.com

REVISIONS / ISSUE	NO.	DATE	DESCRIPTION

SOUTH VALLEY PARK
PHASE 1 IMPROVEMENTS
SOUTH VALLEY PARK
2810 70TH ST E
INVER GROVE HEIGHTS, MN 55076

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 L. Mersch

Signature
Richard L. Mersch

Name
40124 08/12/22
License # Date

PROJECT NUMBER: 20-05
DATE OF ISSUE: 08/12/22
DRAWN BY: RLM
CHECKED BY: JPG

SHEET NAME: GENERAL NOTES

S002

Page 191 of 303

STATEMENT OF SPECIAL INSPECTIONS (IBC 1705)	
Special inspections and tests of elements and nonstructural components of buildings and structures shall meet the requirements of IBC Section 1705.	
The listed special inspections are the minimum required level of inspection unless noted as not required for this project.	
See General Notes for additional testing requirements	
Confirm if any local jurisdiction or local building code requires any additional special inspection requirements.	
Where continuous special inspection is required, the special inspector shall be on site to review the work as it is being performed. Where periodic inspection is required, the special inspector is not required to review the work as it being performed but shall review the specified work on at a reasonable interval to provide adequate observation.	
ITEMS REQUIRING SPECIAL INSPECTION	REQD
IBC 1705.1 General	Y
IBC 1705.2 Steel Construction	Y
IBC 1705.3 Concrete Construction	Y
IBC 1705.4 Masonry Construction	Y
IBC 1705.5 Wood Construction	-
IBC 1705.6 Soils	Y
IBC 1705.10 Fabricated Items	-
	-

REQUIRED SPECIAL INSPECTIONS OF WOOD CONSTRUCTION (IBC 1705.5)					
TYPE		CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	REQD
1.	Fabricator				
a.	Verify the quality control program and shop fabrication procedures wood truss supplier	_____	X	IBC 1704.2.5	Y
b.	If fabricator complies with section IBC 1704.2.5.1, additional verification is not required.	_____	X	IBC 1704.2.5.1	Y
2.	Wood Construction Materials				
a.	Verify that all wood construction material grading and sizes conform to the material specified in the contract documents.	_____	X		Y
3.	Connections and Detailing				
a.	Verify all type, size, and spacing of all connectors and hardware conform to the detailing provided in the contract documents.	_____	X		-
4.	Lateral Elements				
a.	Verify shear wall diaphragm and shear wall layout, member sizes, blocking, and fastening.	_____	X		Y
b.	Confirm all shear wall and diaphragm sheathing complies to panel thickness and grading in the contract documents.	_____	X		Y
5.	Truss Bracing				
a.	Verify floor and roof truss bracing complies to the truss manufacturer specifications and to the contract documents.	_____	X		Y
6.	Deck and Balcony				
a.	Verify ledger framing and all hung balcony connectors.	X	_____		Y

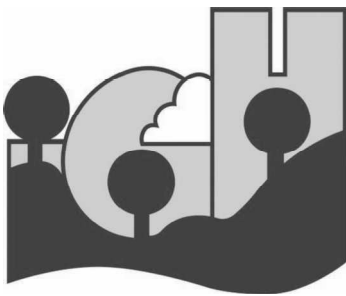
REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION (IBC TABLE 1705.3)					
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD*	IBC REFERENCE	REQD
1. Inspect reinforcement, including prestressing tendons, and verify placement.	—	X	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4	Y
2. Reinforcing bar welding: a. Verify weldability of reinforcing bars other than ASTM A706; b. Inspect single-pass fillet welds, maximum 5/16"; and c. Inspect all other welds.	—	X	AWS D14 ACI 318: 26.6.4	—	-
3. Inspect anchors cast in concrete	—	X	ACI 318: 17.8.2	—	Y
4. Inspect anchors post-installed in hardened concrete members. ^b a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads. b. Mechanical anchors and adhesive anchors not defined in 4.a	X	X	ACI 318: 17.8.2.4 ACI 318: 17.8.2	—	Y
5. Verify use of required design mix.	—	X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3	Y
6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	—	ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	1908.10	Y
7. Inspect concrete and shotcrete placement for proper application techniques.	X	—	ACI 318: 26.5	1908.6, 1908.7, 1908.8	-
8. Verify maintenance of specified curing temperature and techniques.	—	X	ACI 318: 26.5.3-26.5.5	1908.9	-
9. Inspect prestressed concrete for: a. Application of prestressing forces; and b. Grouting of bonded prestressing tendons.	X X	— —	ACI 318: 26.10	—	-
10. Inspect erection of precast concrete members.	—	X	ACI 318: 26.9	—	-
11. Verify in-situ concrete strength, prior to stressing tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slab.	—	X	ACI 318: 26.11.2	—	-
12. Inspect formwork for shape, location and dimensions of the concrete member being formed	—	X	ACI 318: 26.11.1.2 (b)	—	Y

a. Where applicable, See Section 1705.12, Special inspections for seismic resistance. Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with 17.8.2 in ACI 318, or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement of the work.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS (IBC TABLE 1705.6)			
TYPE		CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1.	Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	—	X
2.	Verify excavations are extended to proper depth and have reached proper material.	—	X
3.	Perform classification and testing of compacted fill materials.	—	X
4.	Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	X	—
5.	Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.	—	X

REQUIRED SPECIAL INSPECTIONS AND TESTS OF MASONRY CONSTRUCTION (TMS 402/602-16)							
MINIMUM VERIFICATION		REQUIRED FOR QUALITY ASSURANCE *			REFERENCE FOR CRITERIA		REQD
		LEVEL 1	LEVEL 2	LEVEL 3	TMS 402	TMS 602	
Prior to construction, verification of compliance of submittals.		NR	R	R	————	Art. 1.5	Y
Prior to construction, verification of f _m , except where specifically exempted by Code.		NR	R	R	————	Art. 1.4 B	Y
During construction, verification of Slump flow and Visual Stability Index (VSI) when self-consolidating grout is delivered to the project site.		NR	NR	R	————	Art. 1.5 & Art. 1.6.3	Y
During construction, verification of f _m for every 5,000 sq. ft.		NR	NR	R	————	Art. 1.4 B	Y
During construction, verification of proportions of materials as delivered to the project site for premixed or preblended mortar and grout other than self-consolidating grout.		NR	NR	R	————	Art. 1.4 B	Y
INSPECTION TASK							
1.	As masonry construction begins, verify that the following are in compliance:						
a.	Proportions of site-prepared mortar	NR	P	P	————	Art. 2.1, 2.6 A, & 2.6 C	Y
b.	Grade, type and size of reinforcement, connectors, and anchor bolts.	NR	P	P	————	Art. 3.4 & 3.6 A	Y
c.	Sample panel construction	NR	P	C	————	Art. 1.6 D	-
2.	Prior to grouting, verify that the following are in compliance:						
a.	Grout space	NR	P	C	————	Art. 3.2 D & 3.2 F	Y
b.	Placement of reinforcement, connectors, and anchor bolts	NR	P	C	Sec. 6.1, 6.3.1, 6.3.6, & 6.3.7	Art. 3.2 E & 3.4	Y
c.	Proportions of site-prepared grout	NR	P	P	————	Art. 2.6 B & 2.4 G.1.b	Y
3.	Verify compliance of the following during construction:						
a.	Materials and procedures with the approved submittals	NR	P	P	————	Art. 1.5	Y
b.	Placement of masonry units and mortar joint construction	NR	P	P	————	Art. 3.3 B	Y
c.	Size and location of structural members	NR	P	P	————	Art. 3.3 F	Y
d.	Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction	NR	P	C	Sec. 1.2.1 (e), 6.2.1, & 6.3.1	————	Y
e.	Welding of reinforcement	NR	C	C	Sec. 6.1.6.1.2	————	-
f.	Preparation, construction, and protection of masonry during cold weather (temperature below 40 degrees F) or hot weather (temperature above 90 degrees F)	NR	P	P	————	Art. 1.8 C & 1.8 D	Y
4.	Observe preparation of grout specimens, mortar specimens, and/or prisms.	NR	P	C	————	Art. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, & 1.4 B.4	Y

REQUIRED SPECIAL INSPECTIONS OF STEEL CONSTRUCTION (IBC 1705.2 & AISC 360 CHAPTER N)					
TYPE		CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD ^a	REQD
1.	Fabricator Certification/Quality Control Procedures				
a.	Review shop fabrication and quality control procedures. If fabricator provides a certificate of compliance to the building official that the work complies to the construction documents, then the fabricator is exempt per the requirements of IBC Section 1705.2	_____	X		Y
2.	Material Certification				
a.	Review certified material mill test reports and identification markings on structural framing elements.	_____	_____		-
3.	Bolting				
a.	Inspect high-strength bolts in accordance with referenced standard. Verify installation/tightening standards and procedures prior to the start of work.	_____	X	AISC 360 Chapter N	Y
b.	For slip critical bolts, verify the installation procedure, inspect mating surfaces, and tightening standards.	X	_____	AISC 360 Chapter N	-
4.	Welding				
a.	Visually inspect all welding. Verify preheat and interpass temperatures of steel, proper technique and sequence of welding, cleaning, and number of passes are provided as required.	_____	X	AWS Section D & AISC 360 Chapter N	Y
b.	Inspect 100% of all fillet welds 5/16" or less for size, length, and quality per AWS D1.1. Test 100% of all full or partial penetration welds exceeding 5/16" using Ultrasonic testing. Test 25% of all full or partial penetration welds less than 5/16" using Magnetic Particle testing.	_____	X	AWS Section D & AISC 360 Chapter N	Y
c.	Continuously inspect welding process for all full and partial penetration welds.	X	_____	AWS Section D & AISC 360 Chapter N	Y
d.	Visually inspect size, location, length, and burn thru for 100% of puddle welds on metal deck per AWS D1.3.	_____	X	AWS Section D & AISC 360 Chapter N	-
e.	Visually inspect 100% of all reinforcing bar welds as the welding is performed per AWS D1.4.	X	_____	AWS Section D & AISC 360 Chapter N	-
5.	Shear Connectors				
a.	Visually inspect size, layout, and welding of all headed studs. Sound all installed studs for full penetration weld. Randomly test 15% of headed studs by bending to 15 degrees from vertical.	_____	X	AWS Section D & AISC 360 Chapter N	-
6.	Shear Connectors				
a.	Verify that specified mechanical deck fasteners have been used & installed at specified spacing	_____	X		-
7.	Structural Configuration				
a.	Verify member orientation, configuration, type, and size comply with details indicated on the contract documents and approved shop drawings for the following elements: • Bracing and stiffening members • Joist details at connections • Work critical to integrity of the building structure	_____	X		Y



CONSULTANT



OERTEL

ARCHITECTS

1795 ST. CLAIR AVENUE

ST. PAUL, MN 55105

(651) 696-5186

www.oertelarchitects.com

Paulson & Clark Engineering

2352 E County Road J
Mankato, MN 56001

Office: (651) 407-6056

www.paulsonclark.com

[illegible]

PHASE 1 IMPROVEMENTS

SOUTH VALLEY PARK

PHASE 1 IMPROVEMENTS

SOUTH VALLEY PARK
2810 70TH ST E
INVER GROVE HEIGHTS, MN 55076

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 L. Merrill

Signature

Richard L. Mersch

Name _____

40124 08/12/22

License #

PROJECT NUMBER: _____

DATE OF ISSUE

DRAWN BY:

CHECKED BY _____

JFC

SPECIAL INSPECTIONS

S003



(651) 696-5186
www.oertelarchitects.com

2352 E County Road J
White Bear Lake, MN 55110
Office: (651) 407-6056
www.paulsonclark.com

[illegible]

SOUTH VALLEY PARK PHASE 1 IMPROVEMENTS

SOUTH VALLEY PARK
2810 70TH ST E
INVER GROVE HEIGHTS, MN 55076

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.

Signature _____

Richard L. Mersch

Name _____

40124

08/12/22

License #

Date _____

20-05

DATE OF ISSUE: _____

08/12/22

BIM

JPG

CEILING FRAMING PLAN

S101

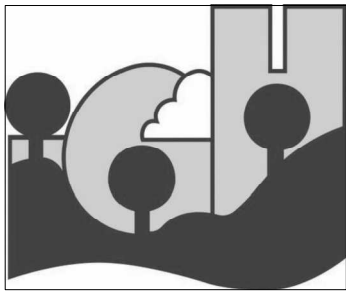
(1

No Scale

PLAN NOTES:

UNLESS NOTED OTHERWISE

1. PROVIDE $\frac{1}{2}$ " PLYWOOD SHEATHING OVER I-JOISTS. FASTEN TO JOISTS WITH CONSTRUCTION ADHESIVE AND 8d NAILS AT 12" OC TO FRAMING.
2. ON PLAN  REPRESENTS $\frac{1}{2}$ " ROOF SHEATHING OVER 2x6 TONGUE AND GROOVE DECKING.
3. TONGUE AND GROOVE DECKING TO BE INSTALLED IN TWO-SPAN CONTINUOUS MANNER. FASTEN ALL DECKING TO SUPPORTS USING (1) 12d FACE NAIL AND (1) 12d TONEL THROUGHT TO THE TONGUE AT EACH SUPPORT.
4. ALL $\frac{1}{2}$ " SHEATHING TO BE ATTACHED OVER DECKING AND/OR FRAMING WITH 8d NAILS AT 12" OC IN FIELD AND 6" OC AT PERIMETER. DO NOT OVERRIDE NAILS AS PENETRATION THROUGH WOOD DECKING MAY OCCUR.
5. NOTE THAT WOOD DECKING IS PRESENT OVER ALL OPEN SHELTER AREAS AND AT EAVES AND OVERHANGS OF ENCLOSED SHELTER.



CONSULTANT



OERTEL
ARCHITECTS

1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105

(651) 696-5186
www.oertelarchitects.com

Paulson & Clark Engineering

2352 E County Road J
White Bear Lake, MN 55110
Office: (651) 407-6056
www.paulsonclark.com

REVISIONS / ISSUE

NO.	DATE	DESCRIPTION

PROJECT NAME

SOUTH VALLEY PARK
PHASE 1 IMPROVEMENTS

SOUTH VALLEY PARK
2810 70TH ST E
INVER GROVE HEIGHTS, MN 55076

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 L. Mersch

Signature

Richard L. Mersch

Name

40124

08/12/22

License #

Date

PROJECT NUMBER

20-05

DATE OF ISSUE

08/12/22

DRAWN BY

RLM

CHECKED BY

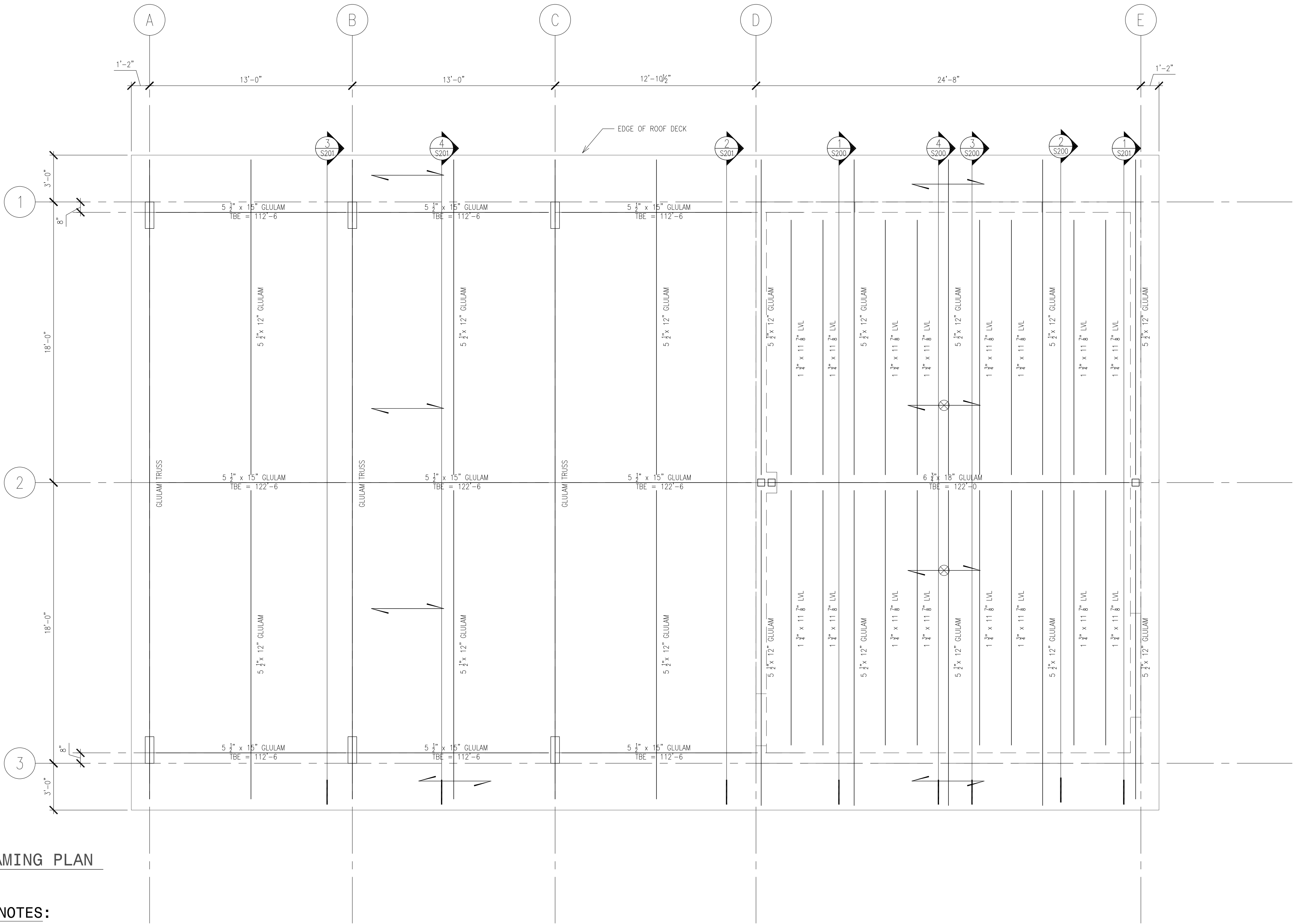
JPG

SHEET NAME

ROOF FRAMING
PLAN

SHEET NO.

S102



1

ROOF FRAMING PLAN

No Scale

PLAN NOTES:

UNLESS NOTED OTHERWISE

- PROVIDE $\frac{3}{4}$ " PLYWOOD SHEATHING OVER I-JOISTS. FASTEN TO JOISTS WITH CONSTRUCTION ADHESIVE AND 8d NAILS AT 12" OC TO FRAMING.
- ON PLAN REPRESENTS $\frac{3}{4}$ " ROOF SHEATHING OVER 2x6 TONGUE AND GROOVE DECKING.
- ON PLAN REPRESENTS $\frac{3}{4}$ " ROOF SHEATHING OVER 2x6 TONGUE AND GROOVE DECKING.
- TONGUE AND GROOVE DECKING TO BE INSTALLED IN TWO-SPAN CONTINUOUS MANNER. FASTEN ALL DECKING TO SUPPORTS USING (1) 12d FACE NAIL AND (1) 12d TOENAIL THROUGH THE TONGUE AT EACH SUPPORT.
- ALL $\frac{3}{4}$ " SHEATHING TO BE ATTACHED OVER DECKING AND/OR FRAMING WITH 8d NAILS AT 12" OC IN FIELD AND 6" OC AT PERIMETER. DO NOT OVERDRIVE NAILS AS PENETRATION THROUGH WOOD DECKING MAY OCCUR.
- NOTE THAT WOOD DECKING IS PRESENT OVER ALL OPEN SHELTER AREAS AND AT EAVES AND OVERHANGS OF ENCLOSED SHELTER.



ST. PAUL, MN 55105

(651) 696-5186
www.oertelarchitects.com

Figure 1

2352 E County Road J
White Bear Lake, MN 55110
Office: (651) 407-6056
www.paulsonclark.com

REVISIONS / ISSUE

SOUTH VALLEY PARK
2810 70TH ST E
INVER GROVE HEIGHTS, MN 55076

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.

Signature _____

Richard L. Mersch

Name _____

40124 08/12/22

PROJECT NUMBER: 20-05

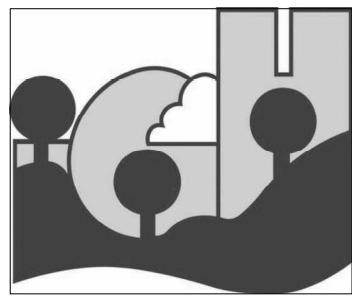
DATE OF ISSUE: 08/12/22

DRAWN BY: BIMCHECKED BY: _____
IPB: _____

SHEET NAME:

Page 196 of 30





CONSULTANT:



**OERTEL
ARCHITECTS**
1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105

(651) 696-5186
www.oertelarchitects.com

Paulson & Clark Engineering
2352 E County Road J
White Bear Lake, MN 55110
Office: (651) 407-6056
www.paulsonclark.com

REVISIONS / ISSUE

NO.	DATE	DESCRIPTION

**SOUTH VALLEY PARK
PHASE 1 IMPROVEMENTS**
SOUTH VALLEY PARK
2810 70TH ST E
INVER GROVE HEIGHTS, MN 55076

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.

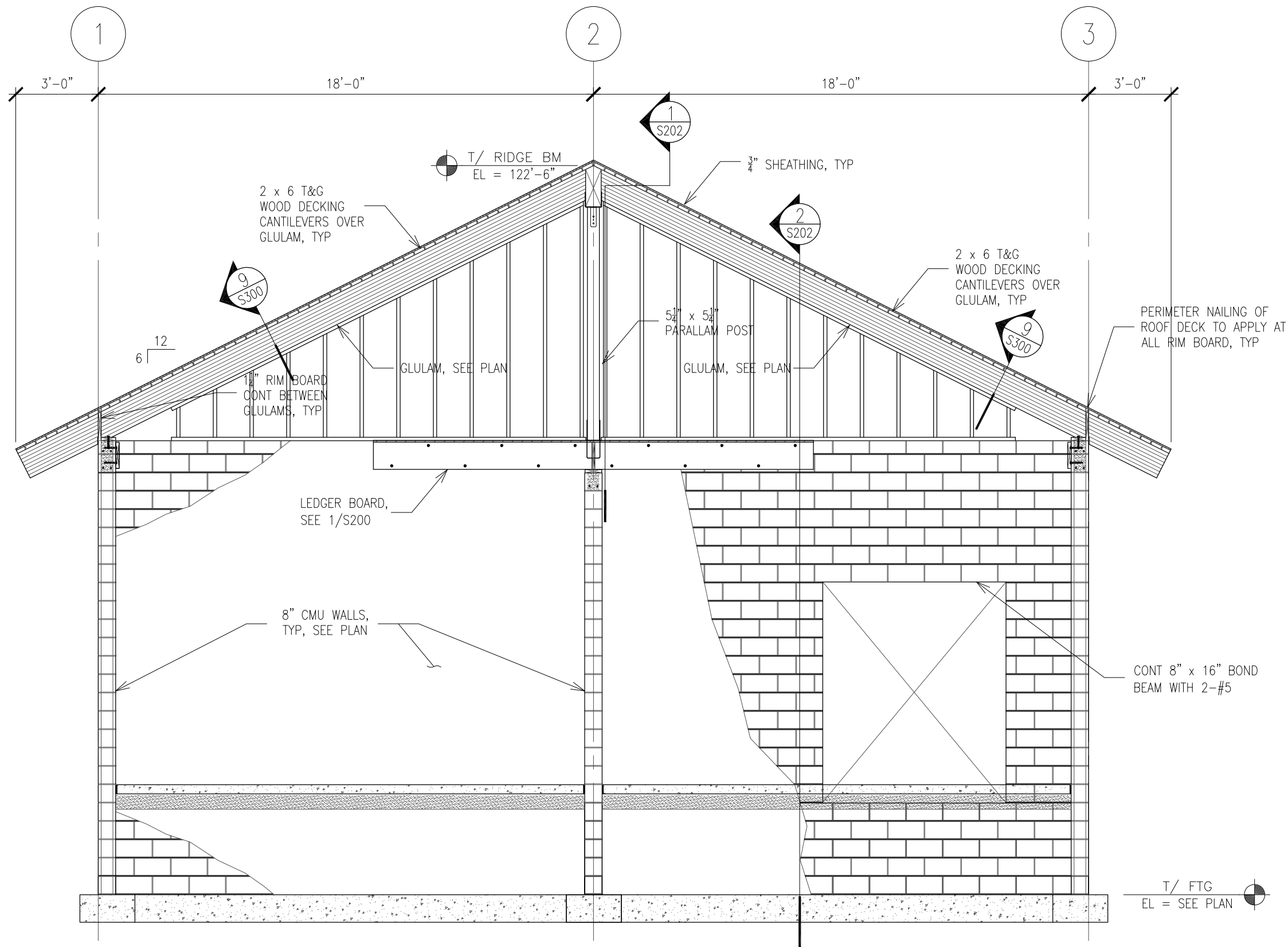
Signature
Richard L. Mersch
Name
40124 08/12/22
License # Date

PROJECT NUMBER: 20-05
DATE OF ISSUE: 08/12/22
DRAWN BY: RLM
CHECKED BY: JPM
SHEET NAME:

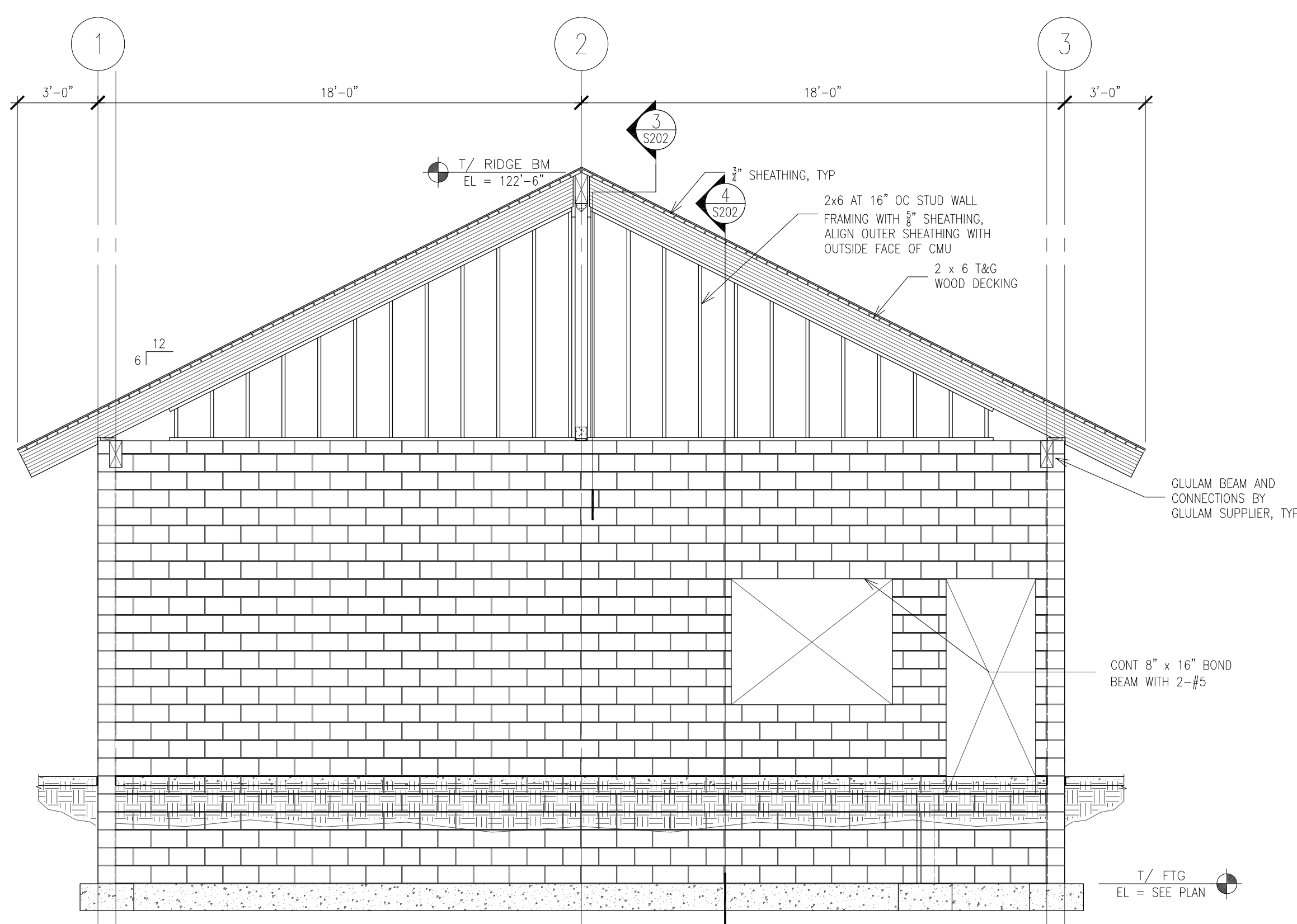
ELEVATIONS

SHEET NO.:

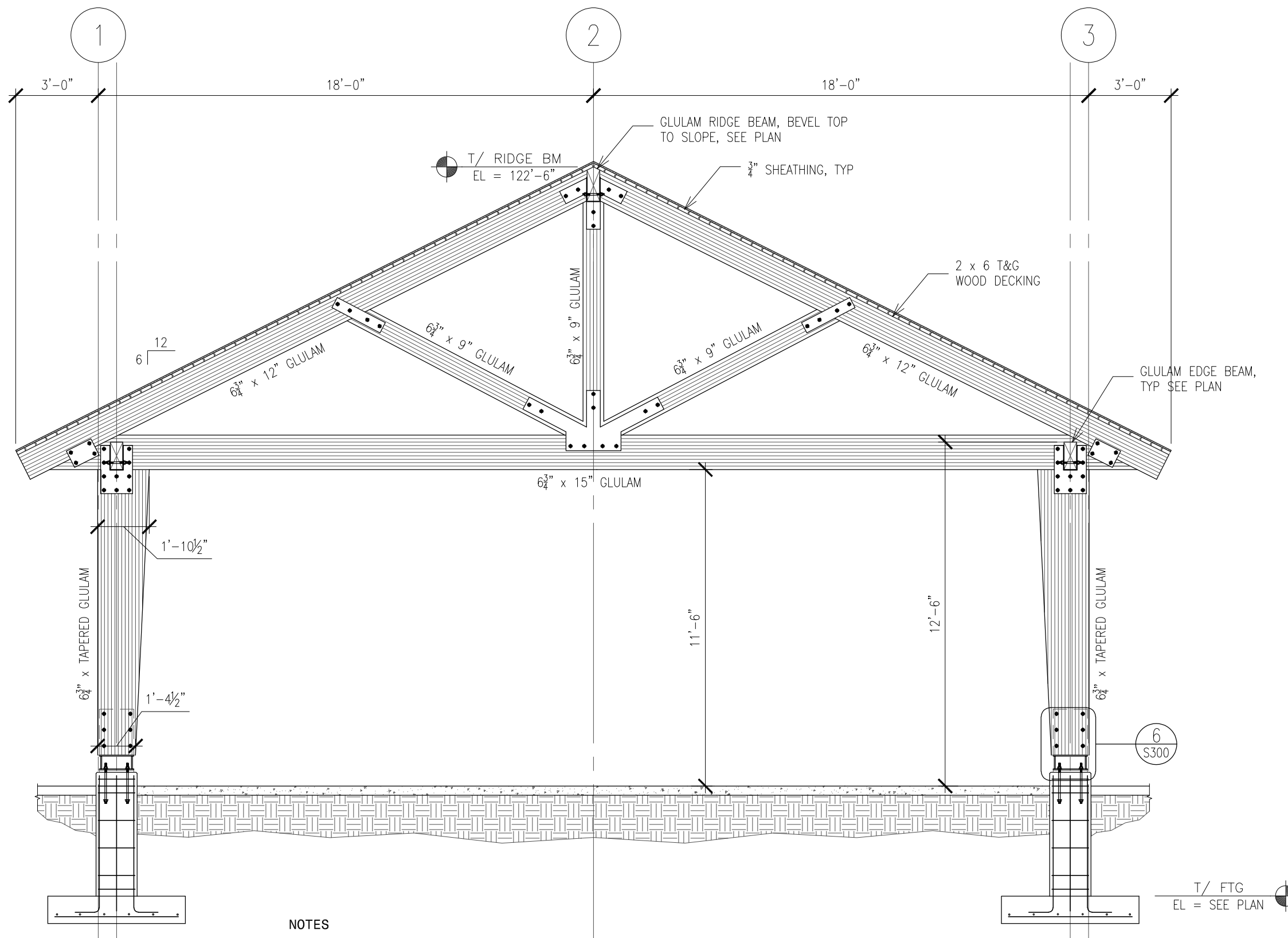
S201



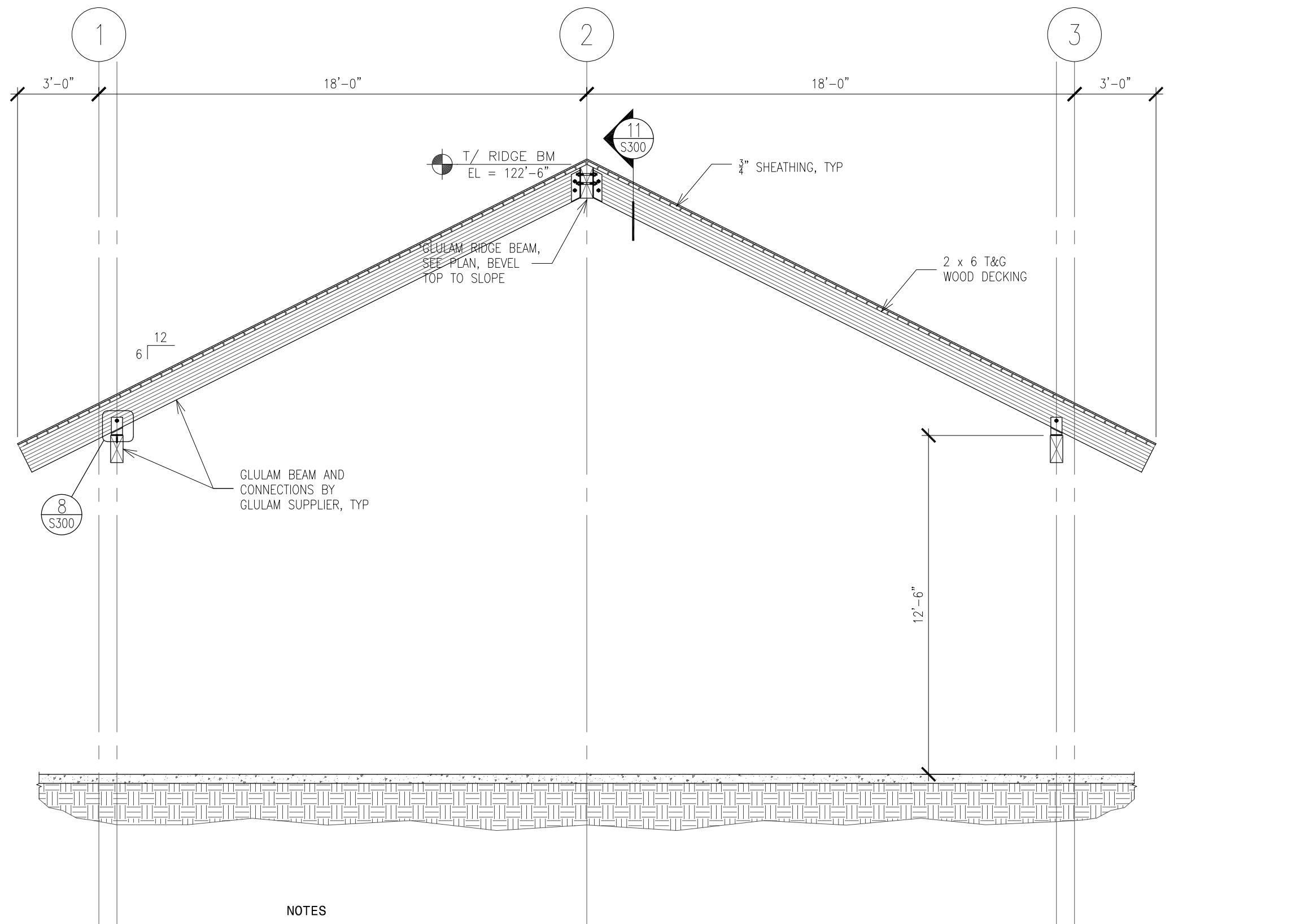
1 SECTION
No Scale



2 SECTION
No Scale



3 SECTION
No Scale



4 SECTION
No Scale



Paulson & Clark Engineering

[illegible]

SOUTH VALLEY PARK
2810 70TH ST E
INVER GROVE HEIGHTS, MN 55076

Richard L. Merrill

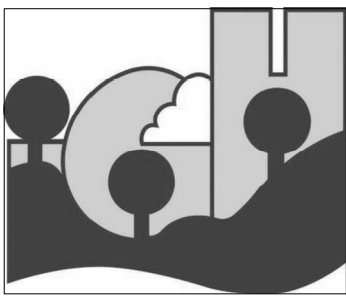
Name _____

PROJECT NUMBER:	20-05
DRAWN BY:	08/12/22
DESIGN BY:	RLM
CHECKED BY:	JPC
SHEET NAME:	

STEFFI MC:

Page 198 of 303





CONSULTANT



OERTEL
ARCHITECTS
1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105

(651) 696-5186
www.oertelarchitects.com

Paulson & Clark Engineering



2352 E County Road J
White Bear Lake, MN 55110
Office: (651) 407-6056
www.paulsonclark.com

REVISIONS / ISSUE

NO. DATE DESCRIPTION

**SOUTH VALLEY PARK
PHASE 1 IMPROVEMENTS**

**SOUTH VALLEY PARK
2810 70TH ST E
INVER GROVE HEIGHTS, MN 55076**

PROJECT NAME

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 L. Mersch

Signature

Richard L. Mersch

Name

40124

08/12/22

License #

Date

PROJECT NUMBER

20-05

DRAWN BY

08/12/22

CHECKED BY

RML

DATE

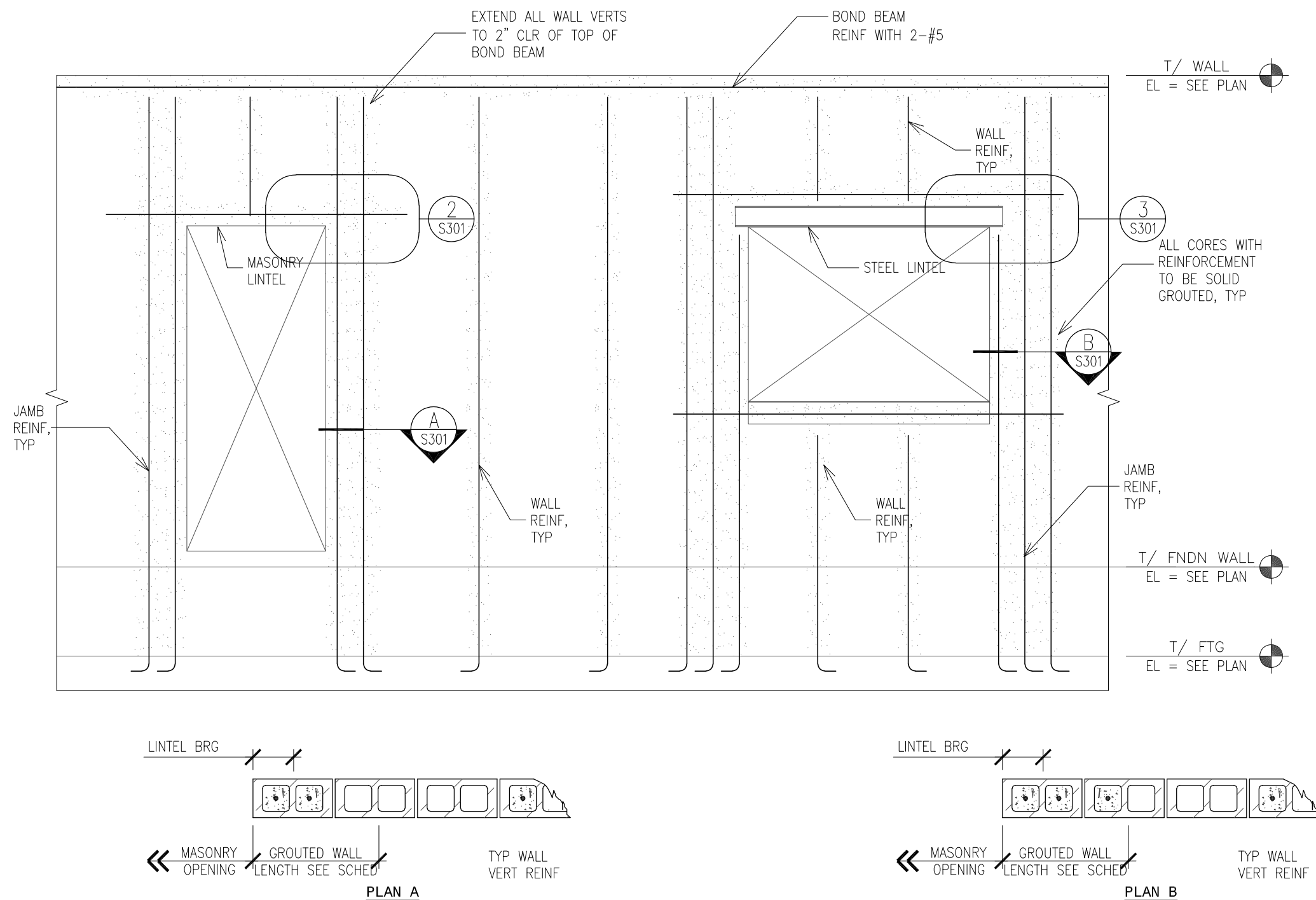
JPG

SHEET NAME

**CMU WALL
DETAILS**

SHEET NO.

S301



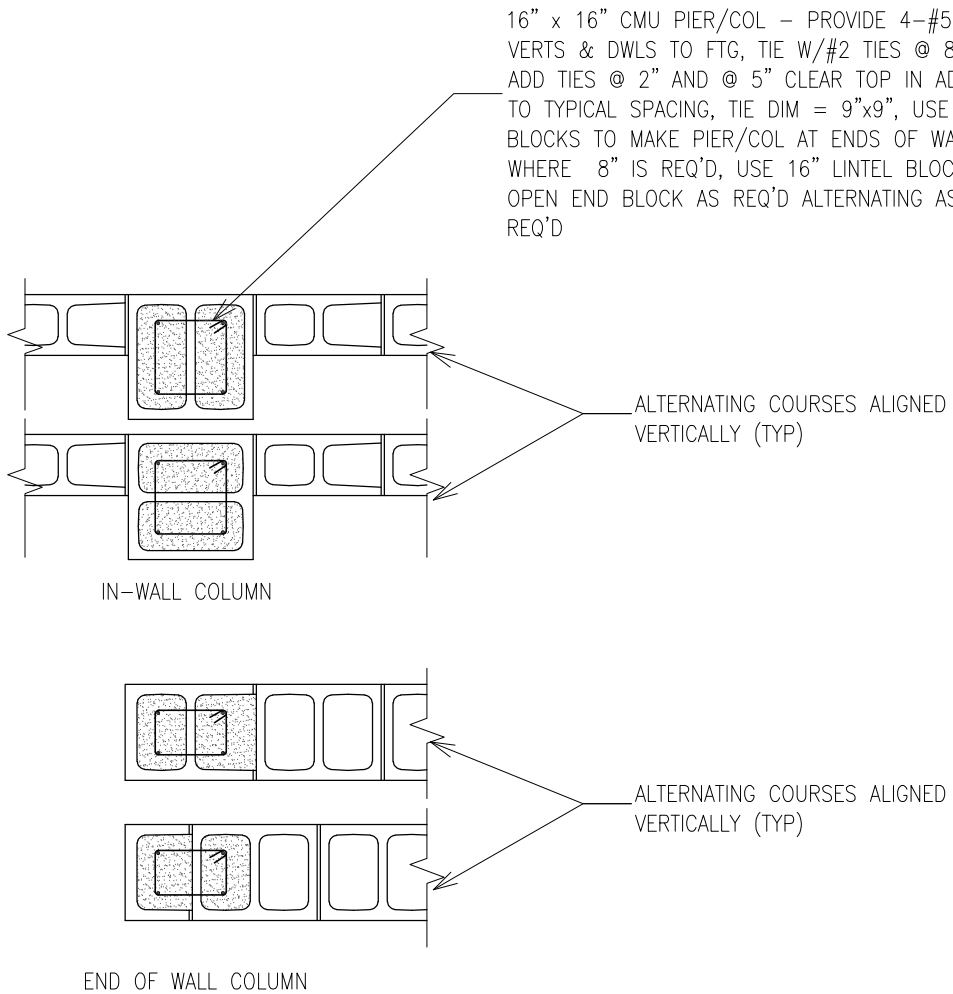
1 TYP WALL OPENING ELEVATION

No Scale

CMU PIER/COLUMN SCHEDULE			
MARK	SIZE	VERT REINF	REMARKS
MP1	16" x 16"	4-#5	

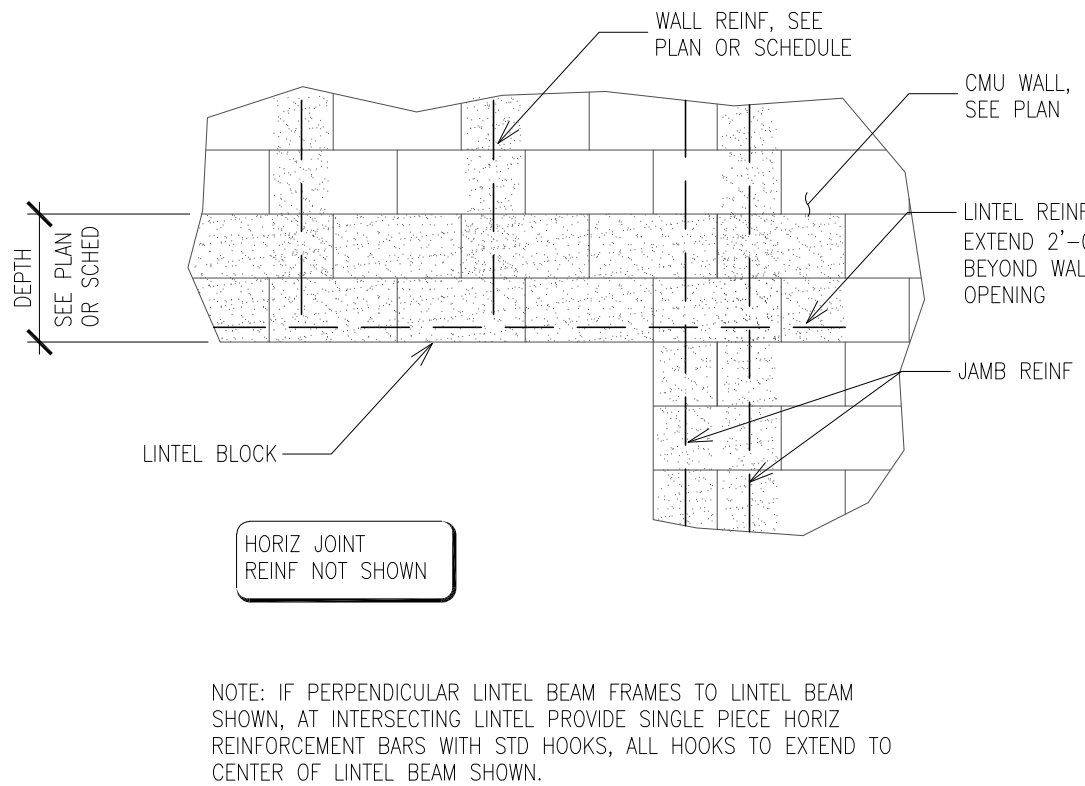
NOTES:
UNLESS NOTED OTHERWISE

- TOP OF PIER ELEVATION = STEEL BEAM BEARING UNLESS DETAILED OTHERWISE.
- SEE DETAIL AT RIGHT FOR MORE INFORMATION.
- PROVIDE MATCHING DOWEL TO FOOTING AT EACH VERT BAR.
- BOND BEAM REINFORCEMENT TO RUN THROUGH PIER.



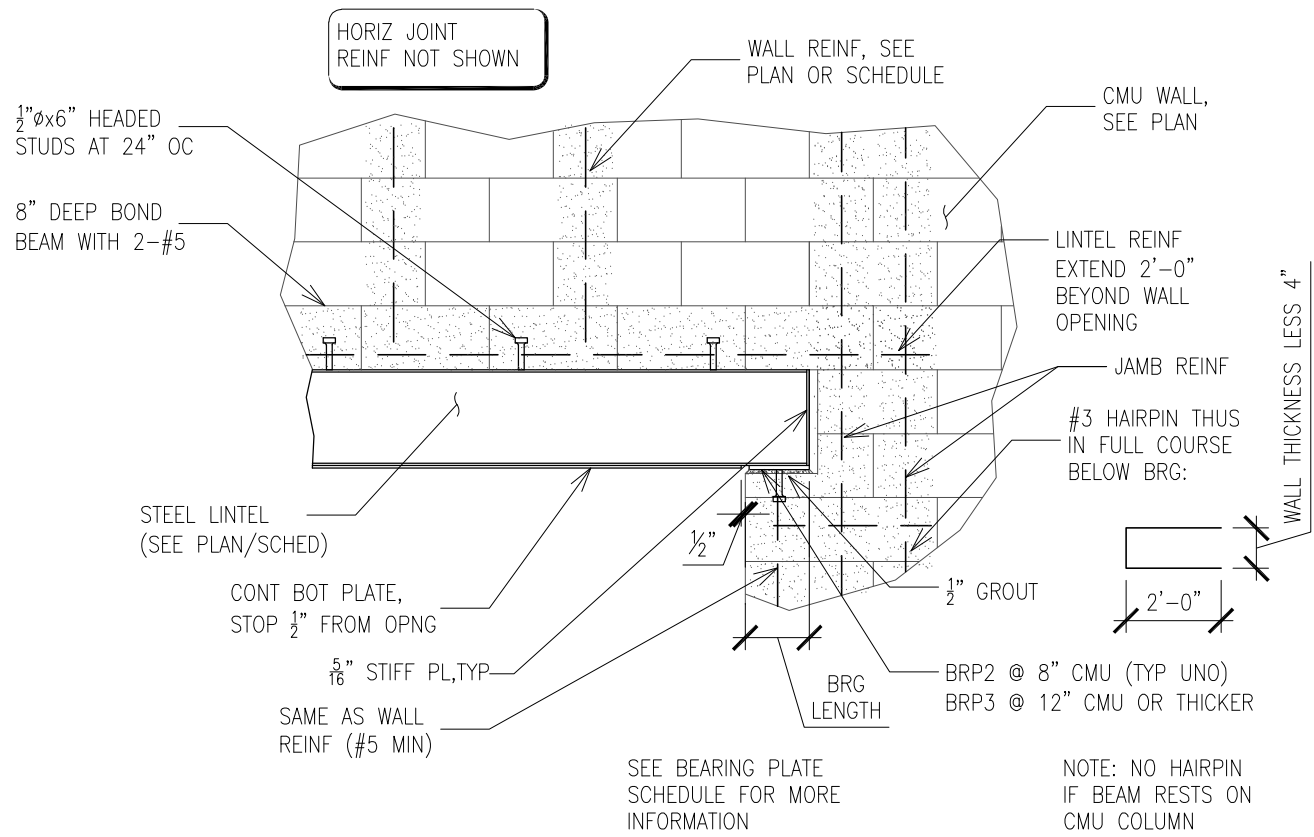
4 CONCRETE MASONRY

No Scale



2 TYPICAL MASONRY LINTEL

No Scale



CMU BEARING PLATE SCHEDULE				
MARK	PLATE SIZE	HEADED STUDS	BEARING LENGTH	COMMENTS
BRP1	1/2" x 5 1/2" x 7 1/2"	(2) 1/2" ø x 4"	6"	
BRP2	1/2" x 7 1/2" x 7 1/2"	(2) 1/2" ø x 4"	6"	
BRP3	1/2" x 9 1/2" x 11 1/2"	(2) 1/2" ø x 4"	8"	LONGER PLATE LENGTH PERPENDICULAR TO BEAM SPAN

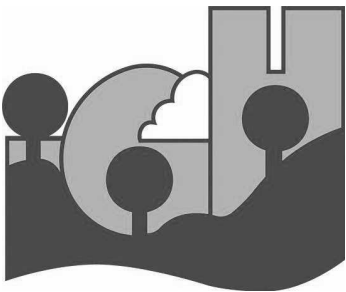
3 TYPICAL STEEL LINTEL

No Scale

CMU WALL REINFORCEMENT SCHEDULE				
MARK	SIZE	REINFORCEMENT		COMMENTS
		DOWELS	VERTICAL	
CMU-1	8"	#5 @ 48" OC	#5 @ 48" OC	
CMU-2	8"	#5 @ 48" OC	#5 @ 48" OC	FULLY GROUTED
CMU-3	8"	#4 @ 72" OC	#4 @ 72" OC	
CMU-4	12"	#5 @ 48" OC	#5 @ 48" OC	
CMU-5	6"	#4 @ 48" OC	#4 @ 48" OC	

NOTES:
UNLESS NOTED OTHERWISE

- ALL WALL DOWELS TO HAVE STD HOOK INTO FTG UNLESS NOTED OTHERWISE.
- ALL BARS ARE CENTERED IN WALL UNLESS NOTED OTHERWISE.
- PROVIDE REBAR POSITIONERS TO LOCATE BARS IN CORES.



CONSULTANT:



**OERTEL
ARCHITECTS**
1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105

(651) 696-5186
www.oertelarchitects.com



Paulson & Clark Engineering
Structural | Mechanical | Electrical | Security
2352 E County Road J
White Bear Lake, MN 55110
Office: (651) 407-6056
www.paulsonclark.com

REVISIONS / ISSUE

NO.	DATE	DESCRIPTION

PROJECT NAME:

**SOUTH VALLEY PARK
PHASE 1 IMPROVEMENTS**

**SOUTH VALLEY PARK
2810 70TH ST E
INVER GROVE HEIGHTS, MN 55076**

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.

Travis L. Willemssen

Signature

Name

47945

License #

08/12/22

Date

PROJECT NUMBER:

20-05

DATE OF ISSUE:

08/12/22

DRAWN BY:

BJG

CHECKED BY:

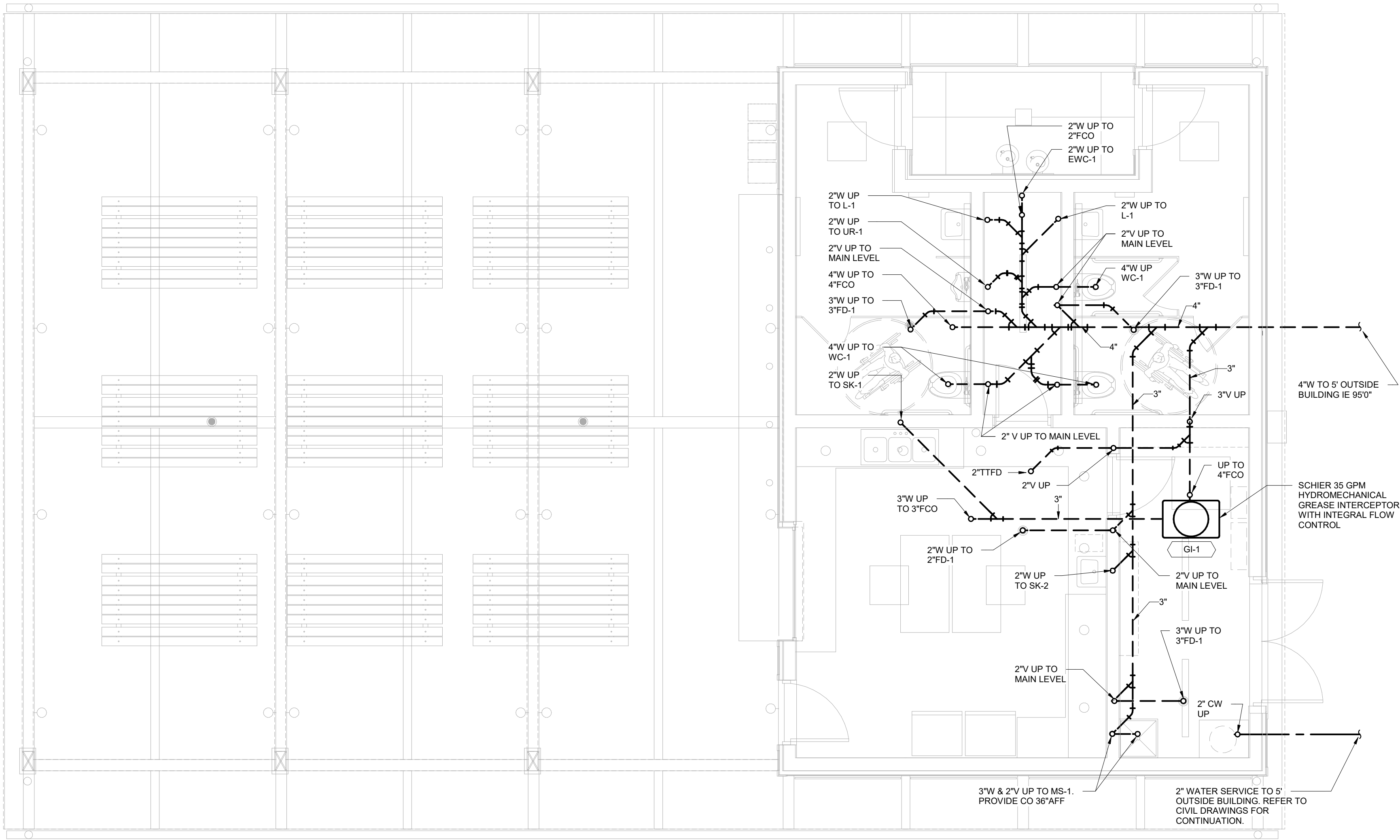
TLW

SHEET NAME:

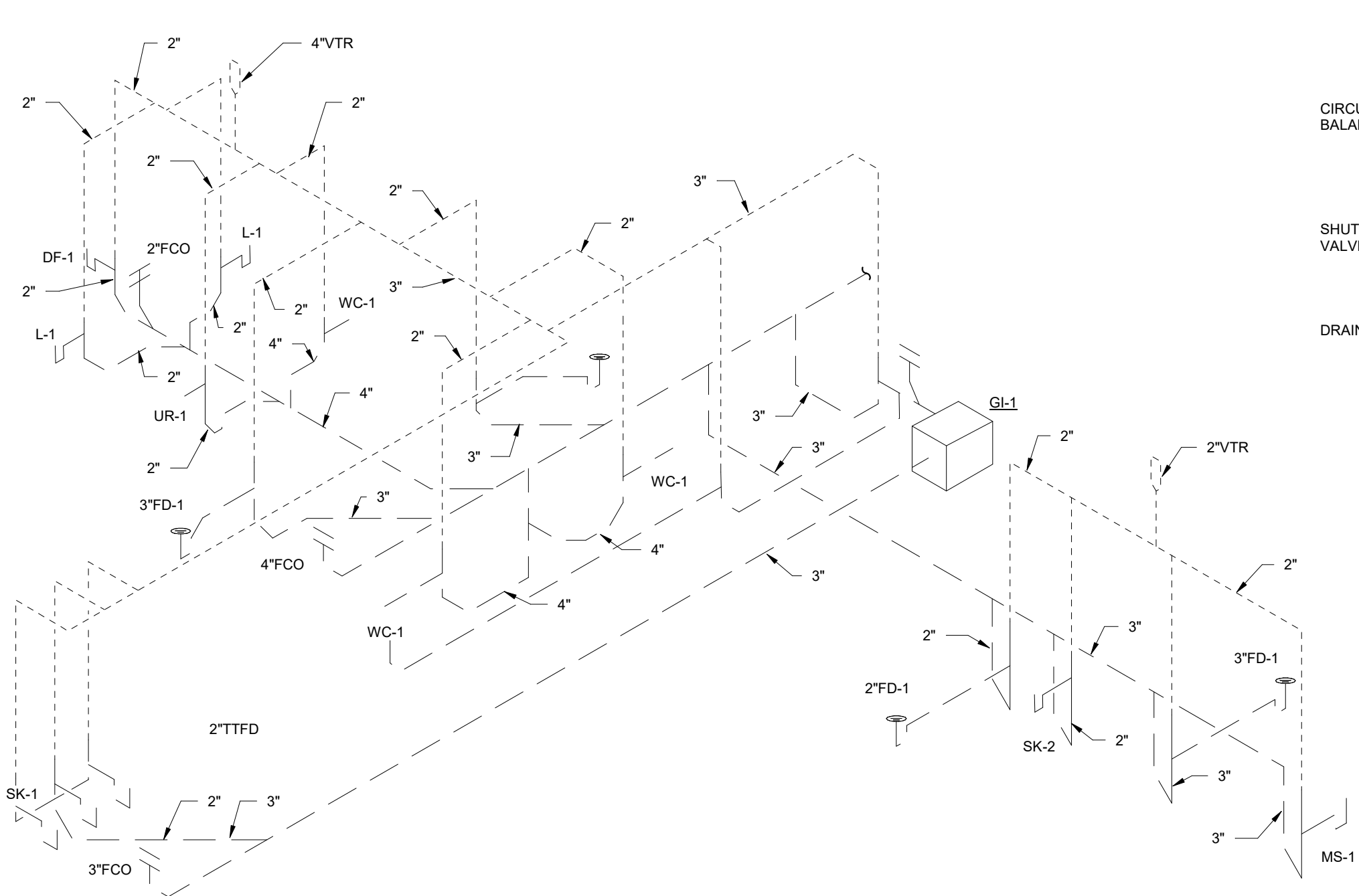
**UNDERGROUND
PLUMBING
PLAN**

SHEET NO.:

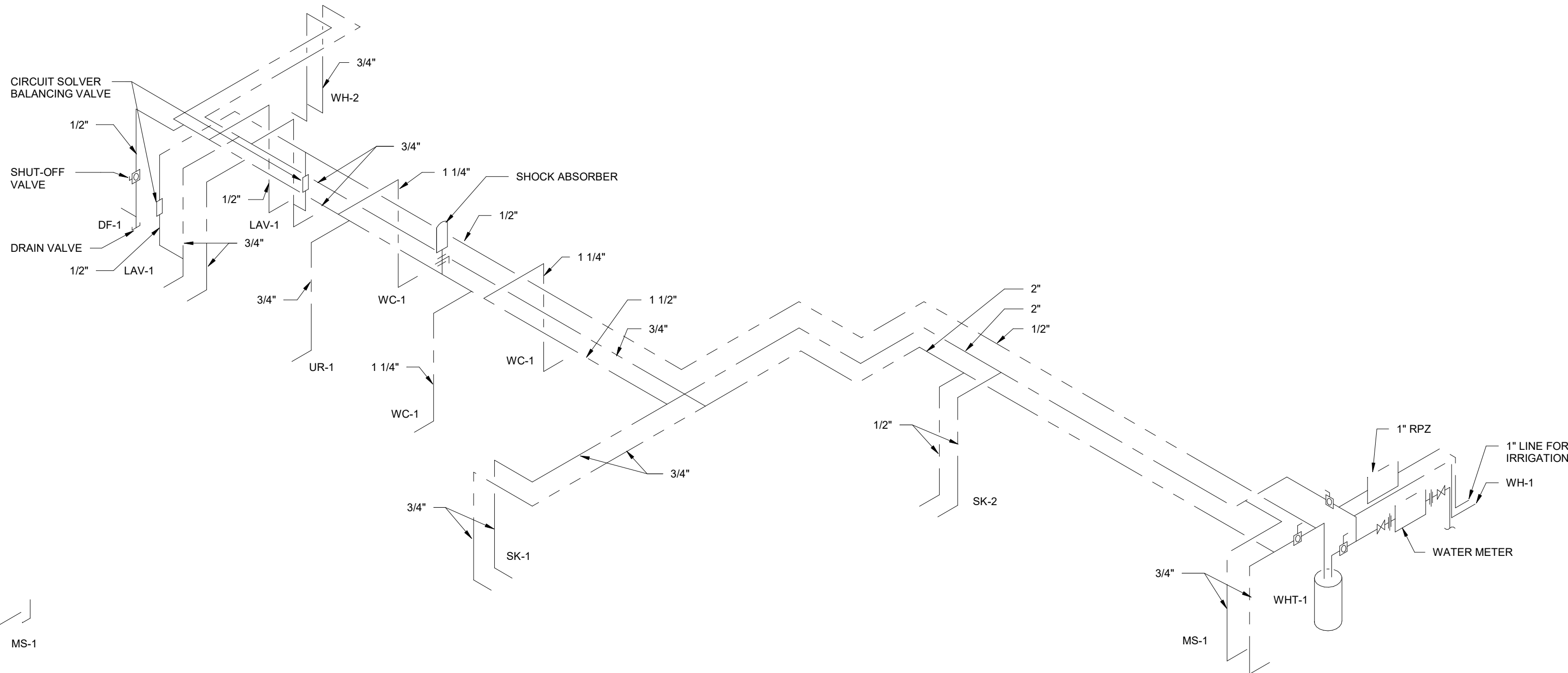
M101



② Plumbing Plan - Underground
1/4" = 1'-0"



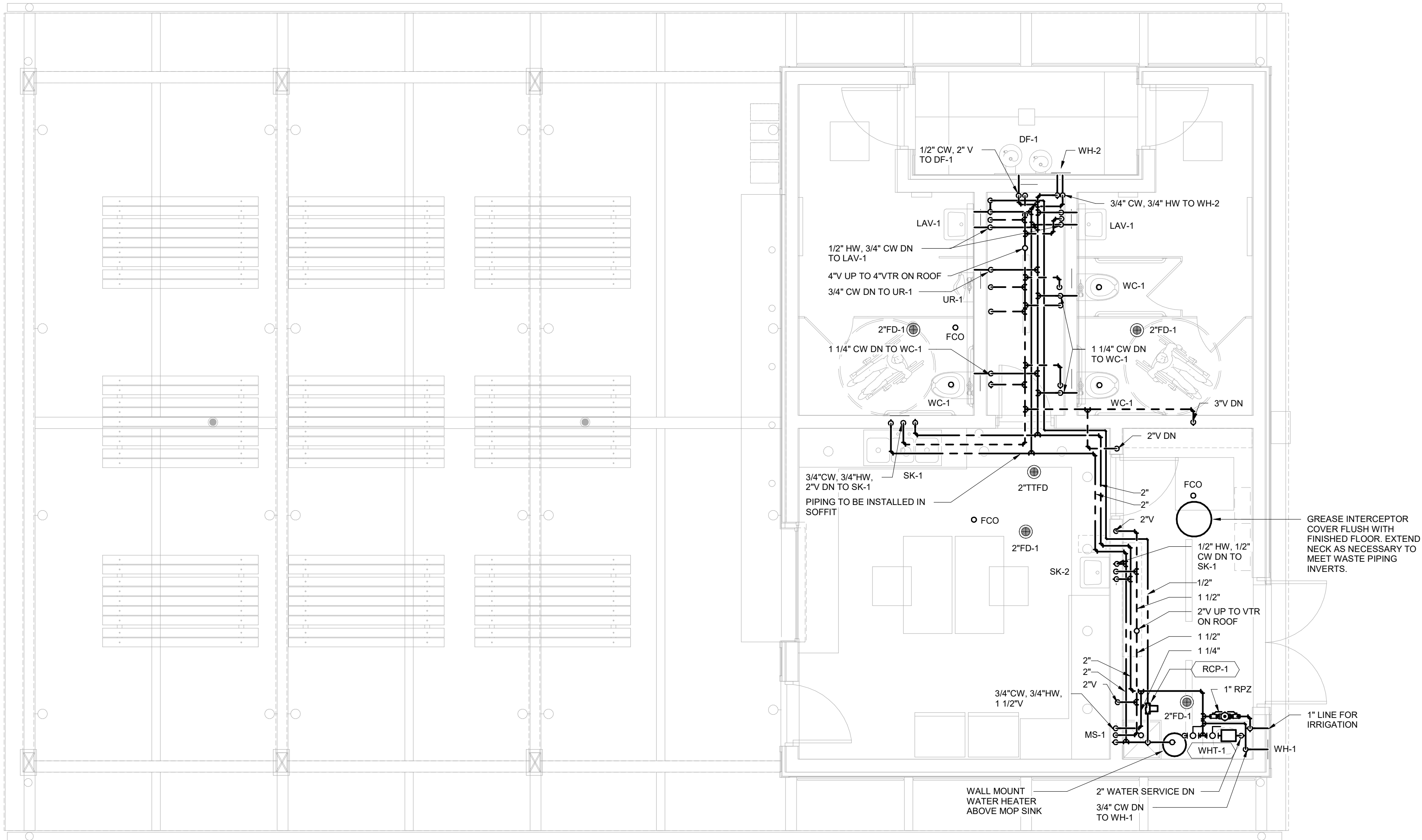
2 Plumbing Waste & Vent Riser
12" = 1'-0"



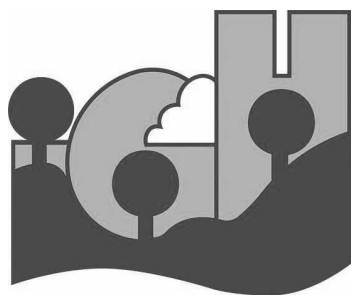
3 Plumbing Domestic Water Riser
NTS

PLUMBING GENERAL NOTES:

- Provide all equipment, piping, controls, components, specialties and accessories necessary for complete and fully functioning mechanical systems whether or not specifically shown on the drawings. Secure all permits and pay all fees in connection with the mechanical work.
- Provide timely and proper layout of mechanical equipment and systems. Coordinate mechanical work with work of other trades prior to ordering equipment, beginning system fabrication, and beginning installation. Keep all plumbing piping runs as high as possible. Maintain proper burial depths for all utility service piping.
- Coordinate all plumbing piping runs with building structure, ductwork and lights. Offset plumbing piping as required for a coordinated and proper system installation. Pitch sanitary and storm drainage piping at 1/4-inch per foot where possible and 1/8-inch per foot minimum unless indicated otherwise on the drawings or required by applicable codes. Where invert elevations are given, the piping shall pitch on an even grade between two given elevations.
- Provide adequate support and vibration isolation for all mechanical equipment and systems furnished and installed as part of the mechanical work. All mechanical equipment shall be supported from the building structure in accordance with code compliant and recognized industry standard methods. No piping shall be supported from other piping, ductwork or conduit.
- Refer to the architectural drawings for locations of all fire rated walls, ceilings and floors. Where mechanical systems penetrate rated walls, ceilings and floors, maintain the indicated rating with specification and code approved fire sealing materials.
- Provide sleeves for all piping penetrations of walls and floors.
- All plumbing piping shall be installed in accordance with the most current adopted Minnesota state plumbing code. Refer to Minnesota Plumbing Code, Chapter 4714.
- Work performed and materials used for the plumbing system shall comply with the standards set in the Minnesota state plumbing code. Refer to Minnesota Plumbing Code, Chapter 4714.
- The domestic water piping system shall be disinfected in accordance with the requirements of the Minnesota state plumbing code. Refer to Minnesota Plumbing Code, Chapter 4714.
- The plumbing system shall be tested in accordance with the requirements of the Minnesota state plumbing code. Refer to Minnesota Plumbing Code, Chapter 4714.
- Plastic pipe must be furnished and installed in accordance with Minnesota state plumbing code requirements. Refer to Minnesota Plumbing Code, Chapter 4714.
- Joints in PVC and CPVC pipe must include use of a primer which is of contrasting color to the pipe and cement. Refer to Minnesota Plumbing Code, Chapter 4714.
- All solder and flux used for potable domestic water distribution systems shall contain less than 0.2 percent lead. Use of 50-50 solder or flux containing more than 0.2 percent lead is prohibited in potable domestic water distribution systems. Any solder other than 95-5 tin-antimony or 96-4 tin-silver must be specifically approved by the governing administrative authority prior to use on this project. Refer to Minnesota Plumbing Code, Chapter 4714.
- Information indicated on the drawings regarding utility service pressures, locations, invert elevations, and materials, has been obtained from a representative of the utility at the time of design. Verify such information prior to fabricating and installing any components associated with utility connections and notify engineer of any deviation before beginning installation of the system.
- Refer also to the HVAC and lighting drawings for coordination and to the project mechanical specifications for further information and additional requirements.
- It is the responsibility of the contractor/installer to notify the Minnesota department of labor and industry when an installation is ready for a state contract job, licensed facility, or project in an area where there is no local administrative authority is ready for an inspection and test.



1 Plumbing Plan - Main Level
1/4" = 1'-0"



CONSULTANT:



1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105

(651) 696-5186
www.oertelarchitects.com



Paulson & Clark Engineering
Structural | Mechanical | Electrical | Security
2352 E County Road J
White Bear Lake, MN 55110
Office: (651) 407-6056
www.paulsonclark.com

REVISIONS / ISSUE

DESCRIPTION

DATE

NO.

PROJECT NAME

**SOUTH VALLEY PARK
PHASE 1 IMPROVEMENTS**

SOUTH VALLEY PARK
2810 70TH ST E
INVER GROVE HEIGHTS, MN 55076

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.

Travis L. Willemssen

Signature

Travis L. Willemssen

Name

47945

License #

08/12/22

Date

PROJECT NUMBER:

20-05

DATE OF ISSUE:

08/12/22

DRAWN BY:

BJG

CHECKED BY:

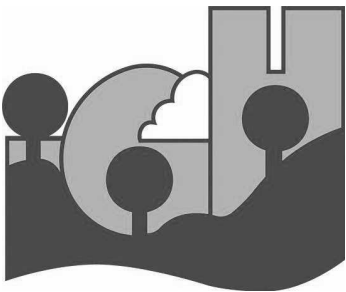
TLW

SHEET NAME:

**PLUMBING
PLAN**

SHEET NO:

M102



CONSULTANT:



1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105

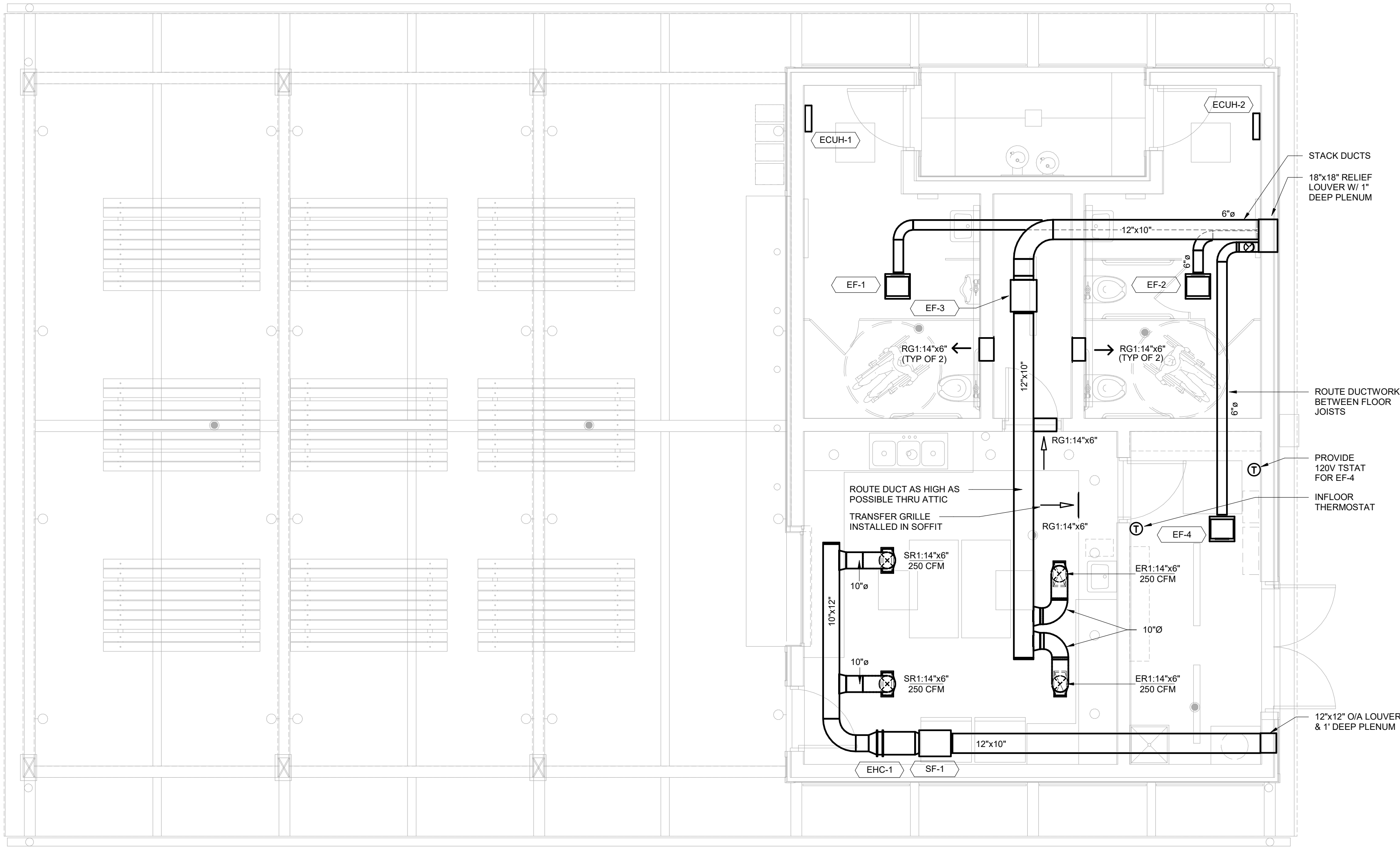
(651) 696-5186
www.oertelarchitects.com



2352 E County Road J
White Bear Lake, MN 55110
Office: (651) 407-6056
www.paulsonclark.com

HVAC GENERAL NOTES:

- A. All ductwork shall be fabricated, installed and supported in accordance with chapter 6 of the 2018 International Mechanical Code and associated 2020 Minnesota amendments, the most current ASHRAE and SMACNA standards and the mechanical specifications for this project.
- B. Provide adequate support and vibration isolation for all mechanical equipment and systems furnished and installed as part of the mechanical work. All mechanical equipment shall be supported from the building structure in accordance with code compliant and recognized industry standard methods. No ductwork or piping shall be supported from other ductwork, piping or conduit.
- C. Refer to the architectural drawings for locations of all fire rated walls, ceilings and floors. Where mechanical systems penetrate rated walls, ceilings and floors, maintain the indicated rating with specification and code approved fire sealing materials.
- D. Refer to the architectural reflected ceiling plans for ceiling types, heights, and exact locations of all diffusers, grilles, registers, lights, and ceiling mounted equipment. Coordinate air terminal device layout with other ceiling equipment and ceiling architectural features.
- E. Coordinate construction openings necessary for the proper installation of mechanical systems with the general contractor. Do not cut new, pre-stressed or post-tensioned concrete floors or structural members without first consulting the architect or structural engineer. Coordinate roof openings with general contractor prior to ordering and setting rooftop equipment.
- F. Provide sleeves for all ductwork and piping penetrations of walls and floors. Maintain respective wall and ceiling ratings at all mechanical penetrations.
- G. Ductwork dimensions are inside clear airflow dimensions. Increase lined ductwork dimensions accordingly.
- H. Contractor may substitute spiral ductwork in lieu of rectangular ductwork sizes.
- J. Provide a manual volume balancing damper on each branch duct that serves a diffuser or register.
- K. Provide flexible connections at the air inlet and outlet of each fan unit or device.
- L. Mount thermostats and wall switches at 54-inches above finished floor unless indicated otherwise. Refer to the HVAC drawings for locations.
- M. The project mechanical drawings are symbolic and diagrammatic and are intended to show only the general scheme, equipment involved, and the approximate locations of materials and equipment.
- N. The project mechanical drawings and specifications are to be considered as supplementing each other. Work specified but not shown, or shown but not specified shall be provided or performed as though mentioned and indicated in both the drawings and specifications. If items indicated on the drawings appear to conflict with other items indicated on the drawings or with the specifications, then the item or statement requiring the greater quantity, superior quality, or condition most favorable to the owner shall take precedence.
- O. Refer also to plumbing and lighting plans for coordination and to the project mechanical specifications for further information and additional requirements.



1 HVAC Plan - Main Level
1/4" = 1'-0"

REVISIONS / ISSUE

DESCRIPTION

DATE

NO.

PROJECT NAME:

SOUTH VALLEY PARK
PHASE 1 IMPROVEMENTS

SOUTH VALLEY PARK
2810 70TH ST E
INVER GROVE HEIGHTS, MN 55076

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.

Travis L. Willemssen

Signature

Travis L. Willemssen

Name

47945

License #

08/12/22

Date

PROJECT NUMBER:

20-05

DATE OF ISSUE:

08/12/22

DRAWN BY:

BJG

CHECKED BY:

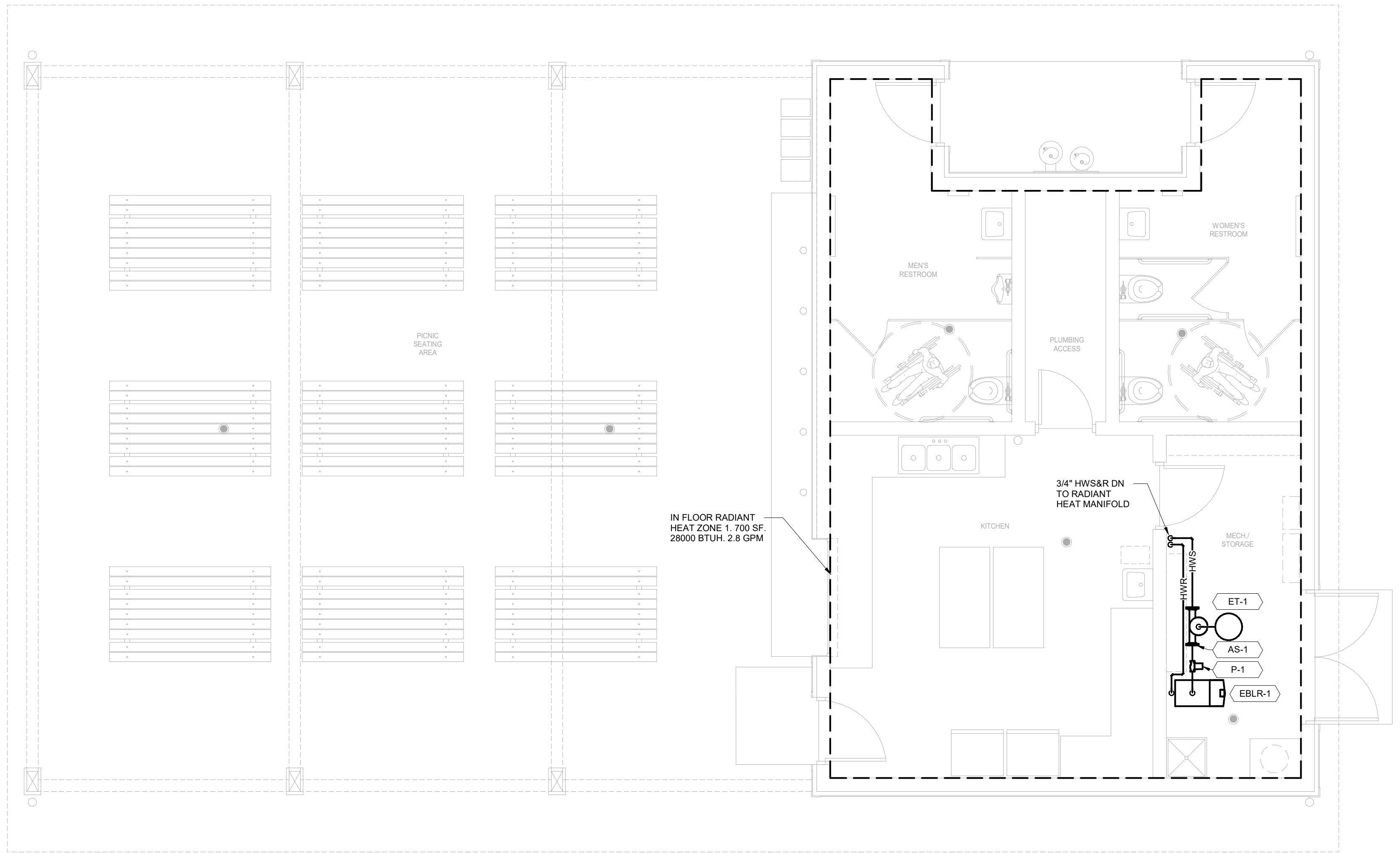
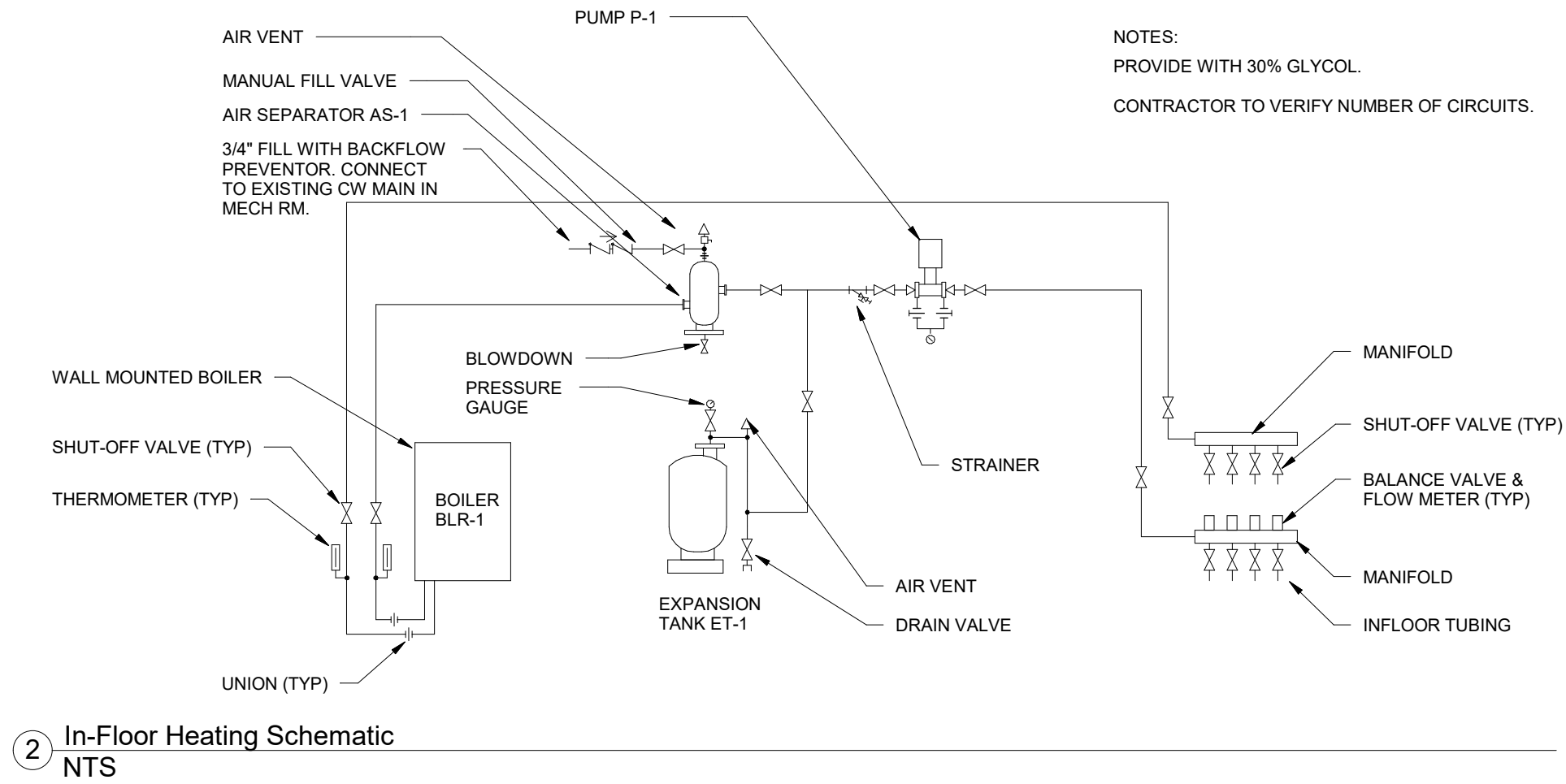
TLW

SHEET NAME:

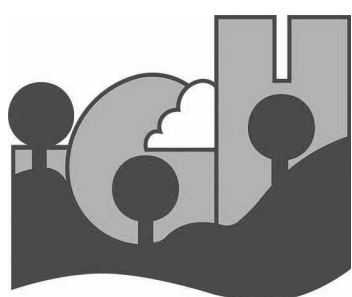
HVAC PLAN

SHEET NO.:

M201



① HVAC Piping Plan - Main Level
1/4" = 1'-0"



CONSULTANT:

OERTEL
ARCHITECTS
1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105
(651) 696-5186
www.oertelarchitects.com



Paulson & Clark Engineering
Structural | Mechanical | Electrical | Security
2352 E County Road J
White Bear Lake, MN 55110
Office: (651) 407-6056
www.paulsonclark.com

REVISIONS / ISSUE		
NO.	DATE	DESCRIPTION

PROJECT NAME:

**SOUTH VALLEY PARK
PHASE 1 IMPROVEMENTS**

SOUTH VALLEY PARK
2810 70TH ST E
INVER GROVE HEIGHTS, MN 55076

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.



Signature

Travis L. Willemssen

Name

47945 08/12/22

License # Date

PROJECT NUMBER: 20-05

DATE OF ISSUE: 08/12/22

DRAWN BY: BJG

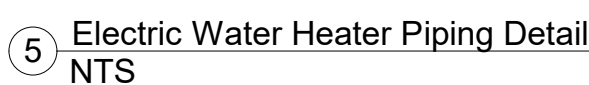
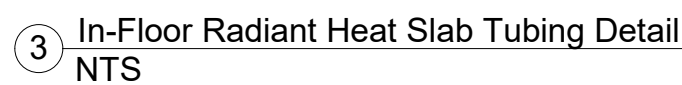
CHECKED BY: TLW

SHEET NAME:

**HVAC PIPING
PLAN**

SHEET NO:

M301



1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105

(651) 696-5186
www.oertelarchitects.com



2352 E County Road J
White Bear Lake, MN 55110
Office: (651) 407-6056
www.paulsonclark.com

[illegible]

SOUTH VALLEY PARK PHASE 1 IMPROVEMENTS

SOUTH VALLEY PARK
2810 70TH ST E
INVER GROVE HEIGHTS, MN 55076

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.

Signature

Travis L. Willemssen

Name

47945

08/12/22

License #

Date: _____

PROJECT NUMBER:

20-05

DATE OF ISSUE:

08/12/22

DRAWN BY:

BJG

CHECKED BY _____

TLW

MECHANICAL DETAILS

SHEET NO:

M400

Plumbing Fixture Schedule						
Fixture Tag	Fixture Type	Minimum Pipe Sizes				Notes
		Cold	Hot	Waste	Vent	
DF-1	Dual Height Drinking Fountain	1/2"	0"	1 1/2"	1 1/2"	Dual Height with Bottle Filler
LAV-1	Wall Hung Lavatory	1/2"	1/2"	1 1/2"	1 1/2"	Battery Sensor, ADA
MS-1	Mop Sink	3/4"	3/4"	3"	1 1/2"	Floor Mount
SK-1	Three Compartment Sink	3/4"	3/4"	2"	2"	Three Compartment Undermount.
SK-2	Sink	1/2"	1/2"	1 1/2"	1 1/2"	Single Compartment, ADA
UR-1	Wall Hung Flush Valve Urinal	3/4"	0"	2"	1 1/2"	Battery Sensor, ADA
WC-1	Water Closet	1 1/4"	0"	4"	2"	Battery Sensor, ADA
WH-1	Wall Hydrant	3/4"	0"	0"	0"	Wall Hydrant
WH-2	Wall Hydrant	3/4"	3/4"	0"	0"	Dual Temp Wall Hydrant

Electric Boiler Schedule											
Mark	Area Served	Manufacturer	Model Number	Description	MBH	Power	Voltage	Phase	Starter By	Disc. By	Notes
EBLR-1	Mech Room	Sussman	EW-12	Electric Boiler	40	12 kW	208 V	3	Mech	Elec	1

- Notes:
- Provide water temp sensors, control panel, temp/pressure relief, low water cutoff and all necessary safeties and accessories.
 - Provide with 30% propylene glycol.

Cabinet Unit Heater Schedule													
Mark	Area Served	Manufacturer	Model Number	Orientation	CFM	EAT	LAT	Power	Voltage	Phase	Starter By	Disc. By	Notes
ECUH-1	Bathroom	Markel	3420J3425T	Surface Mount	245	50 °F	113 °F	5kW	208 V	3	Mech	Mech	1,2
ECUH-2	Bathroom	Markel	3420J3425T	Surface Mount	245	50 °F	113 °F	5kW	208 V	3	Mech	Mech	1,2

- Notes:
- Provide factory disconnect, mounting hardware and integral tamper proof thermostat.

Exhaust Fan Schedule															
Mark	Area Served	Manufacturer	Model Number	CFM	ESP	Damper	Control Voltage	RPM	Sones	Power	Voltage	Phase	Starter By	Disc. By	Notes
EF-1	Bathroom	Greenheck	SP-A390	250	0.50 in-wg	O.B.	24 V	1350	2	135 W	120 V	1	Elec	Elec	1
EF-2	Bathroom	Greenheck	SP-A390	250	0.50 in-wg	O.B.	24 V	1350	2	135 W	120 V	1	Elec	Elec	1
EF-3	Kitchen	Greenheck	SQ-95-VG	500	0.50 in-wg	O.B.	24 V	1602	8.5	1/6 HP	120 V	1	Elec	Elec	1
EF-4	Bathroom	Greenheck	SP-A250	100	0.50 in-wg	O.B.	24 V	1000	2.5	54 W	120 V	1	Mech	Elec	1

- Notes:
- Provide with gravity backdraft damper, factory disconnect, adequate support & vibration isolation.

Electric Heating Coil Schedule													
Mark	Area Served	Manufacturer	Model Number	Duct Width	Duct Height	CFM	Total MBH	EAT	LAT	Power	Voltage	Phase	Notes
EHC-1	Kitchen	Indeeco	QUA	14"	12"	500	49	-16 °F	75 °F	15kW	208 V	3	1

- Notes:
- Provide with SCR control Airflow Proving switch and duct thermostat.

Domestic Water Circulating Pump Schedule										
Mark	Manufacturer	Model Number	Pump GPM	Pump Head (FT)	Power	Voltage	Phase	Starter By	Disc. By	Notes
RCP-1	Bell & Gossett	ecocirc 19-16	1.0	10	60W	120 V	1	Mech	Elec	1

- Notes:
- Provide EC motor with built-in controls.

Water Heater Schedule - Electric									
Mark	Location	Manufacturer	Model Number	Volume	Recovery	Power	Voltage	Phase	Notes
WHT-1	Mechanical Room	A.O. Smith	DEL-10	10 gal	16 gal/h	4kW	208 V	3	1

- Notes:
- Provide temperature/pressure relief piped to mops sink. Wall mount unit above mop sink with drain pan.

Pump Schedule										
Mark	Manufacturer	Model Number	GPM	Head (FT)	Power	Voltage	Phase	Starter By	Disc. By	Notes
P-1	Bell & Gossett	ecocirc 36-45	3.0	25	1/6 HP	120 V	1	Mech	Elec	1

- Notes:
- Provide EC motor with built-in controls.

Supply Fan Schedule															
Mark	Area Served	Manufacturer	Model Number	CFM	ESP	Damper	Control Voltage	RPM	Sones	Power	Voltage	Phase	Starter By	Disc. By	Notes
SF-1	Kitchen	Greenheck	SQ-95-VG	500	0.50 in-wg	O.B.	24 V	1602	8.5	1/6 HP	120 V	1	Mech	Elec	1

- Notes:
- Provide with gravity backdraft damper, factory disconnect, adequate support & vibration isolation and 20"x14" filter rack with Merv 8 filter.

Air Terminal Schedule						
Mark	Description	Manufacturer	Model	Damper	Finish	Notes
ER1	Exhaust Register 35° Deflection	Titus	350RL	O.B.	White	
RG1	Return Grille 35° Deflection	Titus	350RL	None	White	
SR1	Double Deflection Supply Register	Titus	300RS	O.B.	White	

Expansion Tank Schedule									
Mark	Area Served	Type	Manufacturer	Model Number	Tank Volume	Tank Diameter	Tank Height	Tank Flooded Weight	Notes
ET-1	Mech Room	Diaphragm Type Tank	Bell & Gossett	D-15	8 gal	1' - 0"	1' - 7"	107 lb	1

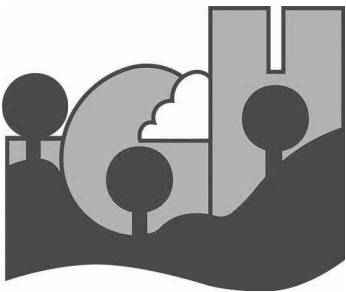
- Notes:
- Hang tank from stucture.

Air Separator Schedule										
Mark	Location	Description	Manufacturer	Model Number	Inlet Size	Tank Height	Tank Diameter	GPM	Unit Operating Weight (LBS)	Notes
AS-1	Mech Room	Flanged Air Separator with Strainer	Bell & Gossett	R-2N	0' - 2"	2' - 3"	0' - 11"	3.0	66	1

- Notes:
- Provide with removable strainer.

Grease Interceptor Schedule							
Mark	Manufacturer	Model Number	Flow Rate GPM	Liquid Capacity Gallons	Grease Holding Capacity (LB)	Inlet/Outlet Pipe Sizes	Notes
GI-1	Schier	GB2	35 GPM	20	130.5	4"	1,2

- Notes:
- Field verify invert elevations, extend neck to install cover flush with finished floor.
 - Provide with integral flow control.



CONSULTANT:



OERTEL

ARCHITECTS

1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105

(651) 696-5186
www.oertelarchitects.com



Paulson & Clark Engineering

Structural | Mechanical | Electrical | Security

2352 E County Road J
White Bear Lake, MN 55110
Office: (651) 407-6056
www.paulsonclark.com

REVISIONS / ISSUE

DESCRIPTION

DATE

NO.

PROJECT NAME:

SOUTH VALLEY PARK
PHASE 1 IMPROVEMENTS

SOUTH VALLEY PARK
2810 70TH ST E
INVER GROVE HEIGHTS, MN 55076

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.

Travis L. Willemssen

Signature

Travis L. Willemssen

Name

47945

08/12/22

License #

Date

PROJECT NUMBER:

20-05

DATE OF ISSUE:

08/12/22

DRAWN BY:

BJG

CHECKED BY:

TLW

SHEET NAME:

MECHANICAL
SCHEDULES

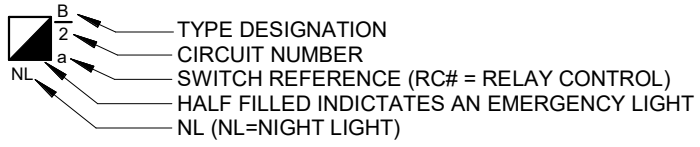
SHEET NO.:

M500

ELECTRICAL ABBREVIATIONS

A	AMPERE	NA	NOT APPLICABLE
AB	ABOVE BACKSPASH	NC	NORMALLY CLOSED
AC	ALTERNATING CURRENT	NO	NORMALLY OPEN
ADD	ADDENDUM	NF	NON-FUSED
AFF	ABOVE FINISHED FLOOR	OC	ON CENTER
AFG	ABOVE FINISHED GRADE	OS	OCCUPANCY CENTER
AHU	AIR HANDLING UNIT	PB	PULL-BOX
ARCH	ARCHITECTURAL	PE	PNEUMATIC-ELECTRIC SWITCH
ATS	AUTOMATIC TRANSWER SWITCH	PH	PHASE
AUTO	AUTOMATIC	PNL	PANEL
BCCT	BOTTOM OF CABLE TRAY	PR	PAIR
C	CONDUIT	PVC	POLY-VINYL-CHLORIDE
CB	CIRCUIT BREAKER	PWR	POWER
CCT, CKT	CIRCUIT	REC	RECEPTACLE
CCTV	CLOSED CIRCUIT CONNECTION	RM	ROOM
CLG	CEILING	S	DENOTES "SURFACE" DEVICE
COMB	COMBINATION	SHT	SHEET
CONN	CONNECT, CONNECTION	SPC	SPACE
CONTR	CONTRACTOR	SPR	SPARE
CUH	CABINET UNIT HEATER	SS	STAINLESS STEEL
DIST	DISTRIBUTION	SW	SWITCH
DN	DOWN	SWBD	SWITCHBOARD
DWG	DRAWING	SWGR	SWITCHGEAR
EA	EACH	TC	TIME-CLOCK
EC	ELECTRICAL CONTRACTOR	TELE	TELEPHONE
ELR	END-OF-LINE RESISTOR	TE	TELECOMMUNICATION ENCLOSURE
EM	EMERGENCY	TS	TIME-SWTICH
EMS	EMERGENCY MANAGEMENT SYSTEM	TSFR	TRANSFER
EP	ELECTRICAL PNEUMATIC SWITCH	TV	TELEVISION
EQUIP	EQUIPMENT	TYP	TYPICAL
EX	EXISTING	TVSS	TRANSIENT VOLTAGE SURGE PROTECTION
EXPL	EXPLOSION PROOF	UG	UNDERGROUND
FA	FIRE ALARM	UH	UNIT HEATER
FDR	FEEDER	UV	UNIT VENTILATOR
FIN	FINISHED	V	VOLTAGE
FLR	FLOOR	VA	VOLT-AMPERE
FLA	FULL LOAD AMPS	VFD	VARIABLE FREQUENCY DRIVE
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR	W	WATTAGE
FACP	FIRE ALARM CONTROL PANEL	WM	SURFACE WIREMOLD
GND,GRD	GROUND	WP	WEATHERPROOF
GFI,GFCI	GROUND-FAULT CIRCUIT INTERRUPTER		
HOA	HAND-OFF-AUTOMATIC ALARM		
HP	HORSEPOWER		
HTG	HEATING		
HTR	HEATER		
HUH	HORIZONTAL UNIT HEATER		
HZ	HERTZ		
I/L	INTERLOCK		
I/C	INTERCOM		
IDF	INTERMEDIATE DISTRIBUTION FRAME		
IC	INTERRUPTING CAPACITY		
IG	ISOLATED GROUND		
JB	JUNCTION BOX		
KVA	KILOVOLT-AMPERE		
KW	KILOWATT		
LOC	LOCATION		
LTG	LIGHTING		
LV	LOW-VOLTAGE		
MAX	MAXIMUM		
MCC	MOTOR CONTROL CENTER		
MDF	MAIN DISTRIBUTION FRAME		
MECH	MECHANICAL		
MIN	MINIMUM		
MFGR	MANUFACTURER		
MSS	MOTOR STARTER SWITCH		
MTC	EMPTY CONDUIT		
MTD	MOUNTED		
MTS	MANUAL TRANSFER SWITCH		

ELECTRICAL SYMBOLS

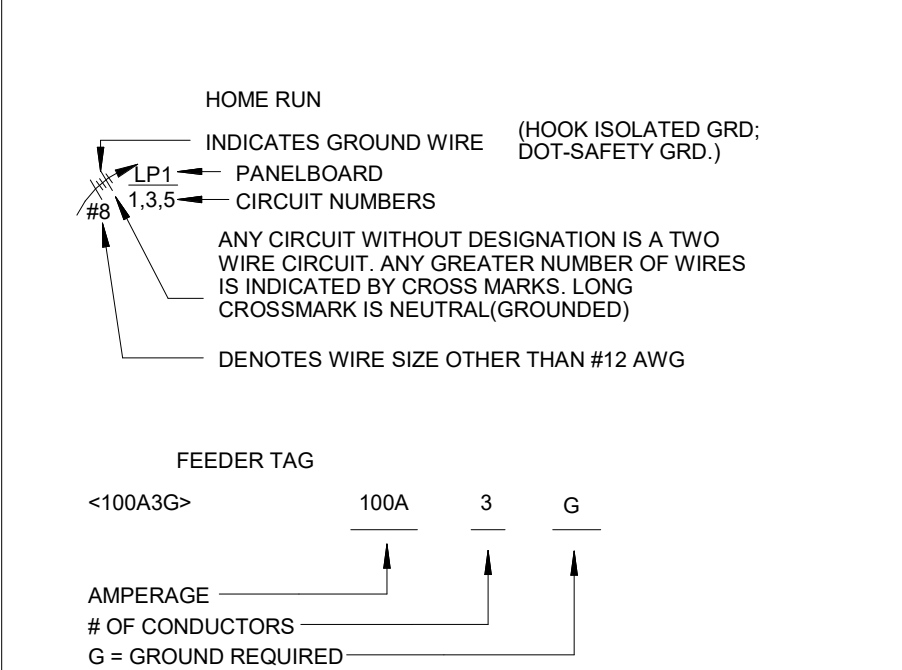
SYMBOL	DESCRIPTION	HEIGHT
LIGHTING		
	LIGHT FIXTURE	
	RECESSED DOWNLIGHT	
	PENDANT - COORDINATE LENGTH WITH ARCHITECT	
	WALL-MOUNTED FIXTURE EXTERIOR DEFAULT MOUNTING HEIGHT = 12'	
	TRACK LIGHTING- INDICATES NUMBER OF LIGHTS	
	EXIT LIGHT-WITH DIRECTIONAL ARROW(S); DARKENED AREA INDICATES NUMBER AND ORIENTATION OF FACES	
	EXIT LIGHT-WITH EMERGENCY LIGHTING HEADS AND DIRECTIONAL ARROWS	
	EMERGENCY LIGHTING WALL PACK	
	EMERGENCY LIGHTING REMOTE HEAD	
	STANDARD SNAP LIGHT SWITCH	46"
	LOW-VOLTAGE SWITCH; "LD#/" INDICATES A SPECIFIC LOW-VOLTAGE LIGHTING DETAIL; LOW VOLTAGE SWITCH. "LD/" INDICATES CONTROL TYPE REFER TO CORRESPONDING DETAIL FOR REQUIRED DEVICES AND CONNECTIONS FOR LIGHTING, SENSOR AND RECEPTACLE CONTROL.	46"
	DIMMER SWITCH	46"
	THREE-WAY SWITCH	46"
	FOUR-WAY SWITCH	46"
	KEY-OPERATED SWITCH	46"
	SWITCH WITH PILOT LIGHT	46"
	ON/OFF SWITCH WITH OCCUPANCY SENSOR	46"
	OCCUPANCY SENSOR: D1 - CEILING MT, 500SF DUAL TECH, STANDALONE W/ POWER PACK D2 - CEILING MT, 2000SF DUAL TECH, STANDALONE W/ POWER PACK L1 - CEILING MT, 2000SF DUAL TECH, CONNECTED TO LTG CTRL PANEL W1 - WALL MT AT SWITCH LOCATION, 1-BUTTON FOR ON/OFF W2 - WALL MT AT SWITCH LOCATION, 2-BUTTON FOR LEVEL CONTROL N1 - CEILING SENSOR CONNECTED TO ROOM CONTROLLER PER DETAIL N2 - CEILING SENSOR CONNECTED TO ROOM CONTROLLER PER DETAIL N3 - WALL MT, GYMNASIUM W/ WIREGUARD	
	DAYLIGHT SENSOR (TO ROOM CONTROLLER); DAYLIGHT SENSOR CONNECTED TO ROOM CONTROLLER FOR DIMMED DAYLIGHT CONTROL. REFER TO DAYLIGHTING CONNECTION DETAIL.	
	TIME-SWITCH (TC: TIME-CLOCK)	
	PHOTOCELL	
COMMUNICATIONS		
	A/V CONNECTION ROUGH-IN; PROVIDE 5" SQUARE BOX WITH (1) 1-1/4" CONDUIT TO ACCESSIBLE CEILING SPACE FOR FUTURE INSTALLATION OF A/V DEVICES BY OWNER.	18"
	SMARTBOARD CONNECTION ROUGH-IN; PROVIDE A 1900 DEEP JUNCTION BOX WITH (2) 1" EMPTY CONDUITS TO THE CEILING SPACE ABOVE. PROVIDE A 2 GANG MUD RING WITHOUT ANGLED CORNERS FOR THE FUTURE SMARTBOARD OR A/V SYSTEM.	18"
	TV CONNECTION ROUGH-IN; SINGLE-GANG JUNCTION BOX W/ (1) DATA DROP TERMINATED IN DISCUIT BOX	60"
	CLOCK	80"
	CLOCK W/ TWO FACES; END-MOUNT	80"
	SPEAKER; WALL OR CEILING MOUNTED; "V" ANNOTATION INDICATES SPEAKER WITH VOLUME CONTROL	80"CLG
	LOCAL SOUND SYSTEM SPEAKER	
	SPEAKER JACK	
	PROJECTION SPEAKER; "WP" ANNOTATION INDICATES WEATHERPROOF EXTERIOR SPEAKER	80"
	MICROPHONE; WALL OR CEILING MOUNTED	18"CLG
	AUDIO JACK	
	VOLUME CONTROL	46"
	BELL OR OTHER AUDIBLE DEVICE	80"

SYMBOL	DESCRIPTION	HEIGHT
FIRE		
	FIRE ALARM MANUAL PULL STATION	
	FIRE ALARM SPEAKER; MOUNT AT 80" OR 6.0" BELOW CEILING-WHICHEVER IS LOWEST.	
	FIRE ALARM STROBE; MOUNT AT 80" OR 6.0" BELOW CEILING-WHICHEVER IS LOWEST.	
	EMERGENCY STROBE; MOUNT AT 80" OR 6.0" BELOW CEILING-WHICHEVER IS LOWEST.	
	FIRE ALARM SPEAKER/STROBE; MOUNT AT 80" OR 6.0" BELOW CEILING-WHICHEVER IS LOWEST.	
	FIRE ALARM SMOKE DETECTOR	
	FIRE ALARM HEAT DETECTOR	
	FIRE ALARM DUCT SMOKE DETECTOR	
	REMOTE DUCT SMOKE DETECTOR TEST STATION	
	FIRE SMOKE DAMPER; PROVIDE 120v CONNECTION TO THE FIRE SMOKE DAMPER. PROVIDE A DUCT SMOKE DETECTOR WITH CONNECTIONS TO DAMPER & FACP. PROVIDE INTEGRATION WITH SERVING UNIT. DAMPER SHALL CLOSE WHENEVER SERVING UNIT IS NOT RUNNING.	
	SMOKE DAMPER; PROVIDE 120v CONNECTION TO THE SMOKE DAMPER. PROVIDE A DUCT SMOKE DETECTOR WITH CONNECTIONS TO DAMPER & FACP. PROVIDE INTEGRATION WITH SERVING UNIT. DAMPER SHALL CLOSE WHENEVER SERVING UNITIS NOT RUNNING.	
	FIRE ALARM FLOW-SWITCH	
	FIRE ALARM TAMPER SWITCH	
	FIRE ALARM SOLENOID VALVE	
	FIRE ALARM DOOR HOLD OPEN (MAGNETIC)	
	FIRE ALARM INDIVIDUAL ADDRESSABLE MODULE	
	FIREMANS KEY LOCK BOX	46"
	FIRE ALARM LOCK DOWN	
	FIRE ALARM CONTROL PANEL	
	FIRE ALARM ANNUNCIATOR PANEL AND MICROPHONE UNIT	
POWER		
	RECEPTACLE (DUPLEX)	18"
	BOX AT BASE OF DEVICE INDICATES WIREMOLD-MOUNT, TYP ALL DEVICES.	
	QUADRUPLEX RECEPTACLE	18"
	GFI RECEPTACLE (DUPLEX)	46"
	COMBINATION USB/DUPLEX RECEPTACLE	46"
	DUPLEX RECEPTACLE ON EMERGENCY POWER	18"
	QUADRUPLEX RECEPTACLE ON EMERGENCY POWER	18"
	GREEN DUPLEX RECEPTACLE ON OCCUPANCY SENSOR REFER TO LOW VOLTAGE DETAILS	18"
	GREEN QUADRUPLEX RECEPTACLE ON OCCUPANCY SENSOR REFER TO LOW VOLTAGE DETAILS	18"
	DUPLEX RECEPTACLE (TAMPER RESISTANT)	18"
	DUPLEX RECEPTACLE (SPLIT WIRED)	18"
	SPECIAL PURPOSE OUTLET	18"
	POKE-THRU FLOORBOX; ATTACHED SYMBOLS INDICATE INSTALLED DEVICES/SERVICES	
	IN-GRADE FLOORBOX; ATTACHED SYMBOLS INDICATE INSTALLED DEVICES/SERVICES	
DATA		
	DATA OUTLET; STANDARD (1) DATA DROP: "W" ANNOTATION DENOTES MOUNTING HEIGHT AT 46"; PROVIDE DEVICES INDICATED AND A 2 GANG DEEP BOX WITH TWO (2) 3/4" CONDUITS FOR DATA/VOICE ROUTED TO TE LOCATED IN MECH ROOM	18"
	DATA OUTLET; STANDARD (2) DATA DROPS "D" ANNOTATION DENOTES NONTYPICAL DROP QTY, EG "3D"; PROVIDE DEVICES INDICATED AND A 2 GANG DEEP BOX WITH TWO (2) 3/4" CONDUITS FOR ROUTED TO TE LOCATED IN MECH ROOM	18"
	WIRELESS ACCESS POINT; PROVIDE DOUBLE GANG BOX AND (1) 1" CONDUIT FROM DEVICE TO TE LOCATED IN MECH ROOM	CLG
	VOICE/DATA OUTLET; PROVIDE 2 GANG DEEP BOX WITH TWO (2) 3/4" CONDUITS FOR ROUTED TO TE LOCATED IN MECH ROOM	18"

SYMBOL	DESCRIPTION	HEIGHT
SECURITY		
	DOOR SECURITY ROUGH-IN; REFER TO DOOR SECURITY ROUGH-IN DETAIL	
	CAMERA ROUGH-IN; PROVIDE (1) DATA DROP	
	PAN/TILT/ZOOM SURVEILLANCE CAMERA	
	ACCESS CONTROL J-BOX	
	COMBINATION CARD READER KEYPAD	
	CARD READER	
	DURESS ALARM	
	DOOR CONTACT; PROVIDE ROUGH-IN FOR FUTURE DOOR CONTACTS. ROUTE CONDUIT FROM FRAME TO EXTERIOR OF BUILDING.	
	ELECTRIC LOCK	
	GLASS BREAK SENSOR	
	INTERCOM	
	INTERCOM MASTER	
	KEYPAD	
	LOCAL ALARM	
	LOCK DOWN	
	MOTION DETECTOR	
	PUSH BOTTON	
	POWER DOOR OPERATOR	
	POWER SUPPLY	
	INTEGRATION RELAY	
	WIRELESS DURESS REPEATER	
	REQUEST-TO-EXIT DEVICE	
	WIRELESS DURESS RECEIVER	
	WORK STATION	
MEDICAL		
	NURSE CALL - PATIENT (CB, SA, AND PILLOW SPEAKER)	
	NURSE CALL - DUTY STATION	
	NURSE CALL - CODE BLUE	
	NURSE CALL - STAFF ASSIST	
	NURSE CALL - DOME LIGHT	
	NURSE CALL - TOILET PULL	
MISCELLANEOUS		
	ELECTRICAL KEY NOTE SYMBOL NUMBER	
	MOTOR OR EQUIPMENT; SEE SCHEDULES	
	VIEW REFERENCE; REFER TO INDICATED SECTION OR DETAIL	
	ACTIVATION KIT IN FLOORBOX. PROVIDE 2" CONDUIT TO ACCESSIBLE CEILING SPACE FOR FUTURE A/V INSTALL BY OWNER.	
	JUNCTION BOX	18"
	PANELBOARD MOUNT TOP OF PANEL AT 6.0' A.F.F.	
	ELECTRICAL SWITCHBOARD OR SPECIALTY EQUIPMENT; SEE LABELLING OR KEYED NOTE ON SHEET	
	SAFETY SWITCH	
	MOTOR STARTER	60"
	COMBINATION MOTOR STARTER/SAFETY SWITCH	60"
	THERMOSTAT	46"
	RELAY	60"
	ELECTRICALLY OPERATED SOLENOID	
	GROUND	
	CONDUIT STUB	
	INDICATES DEVICES SHOWN UNDER COMMON COVERPLATE	

SHEET INDEX

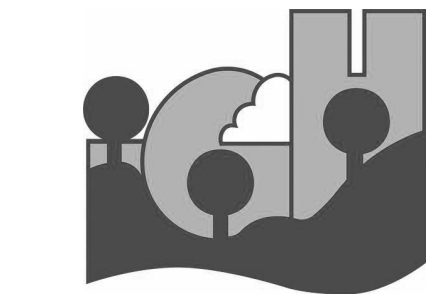
NUMBER	NAME
E000	ELECTRICAL TITLE SHEET
E001	ELECTRICAL SITE PLAN
E101	ELECTRICAL LIGHTING PLAN
E201	ELECTRICAL POWER & SYSTEMS PLAN
E300	ELECTRICAL DETAILS
E400	ELECTRICAL SCHEDULES
CIRCUITING	



Branch Circuit Sizing (120V, 20A circuits)	
Circuit Length(ft)	Wire Size*
0 - 75'	#12 AWG
76' - 150'	#10 AWG
151' - 240'	#8 AWG
241' - 380'	#6 AWG
* Wire size applies to both the hot and neutral conductor. Provide an Equipment ground sized to comply with T250.122 of the NEC.	

ELECTRICAL SYMBOL GENERAL NOTES

- EQUIPMENT SHALL BE INSTALLED AT THE MOUNTING HEIGHTS INDICATED UNLESS SHOWN OTHERWISE ON THE ARCH. ELEVATIONS, NOTED ON THE DRAWINGS, OR IN THE SPECIFICATIONS.
- ALL MOUNTING HEIGHTS ARE TO CENTER OF DEVICE FROM FINISHED FLOOR. MOUNTING HEIGHTS INDICATED ON WALL ELEVATIONS, TAKE PRECEDENCE OVER MOUNTING HEIGHTS LISTED ABOVE.
- LETTERS ADJACENT TO SYMBOLS INDICATE UNIT TYPE - SEE SPECS.
- DOTTED SYMBOLS INDICATE EXISTING DEVICES.
- TICK MARKS CONNECTED TO SYMBOLS INDICATE WALL MOUNTED DEVICES.



CONSULTANT:

OERTEL
ARCHITECTS
1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105
(651) 696-5186
www.oertelarchitects.com



Paulson & Clark Engineering
Structural | Mechanical | Electrical | Security
2352 E County Road J
White Bear Lake, MN 55110
Office: (651) 407-6056
www.paulsonclark.com

REVISIONS / ISSUE	
NO.	DESCRIPTION

SOUTH VALLEY PARK
PHASE 1 IMPROVEMENTS
SOUTH VALLEY PARK
2810 70TH ST E
INVER GROVE HEIGHTS, MN 55076

PROJECT NAME:

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 J. Tripp

Signature

Andrew J. Tripp

Name

46199

License #

08/12/22

Date

PROJECT NUMBER:

20-05

DATE OF ISSUE:

08/12/22

DRAWN BY:

RTA

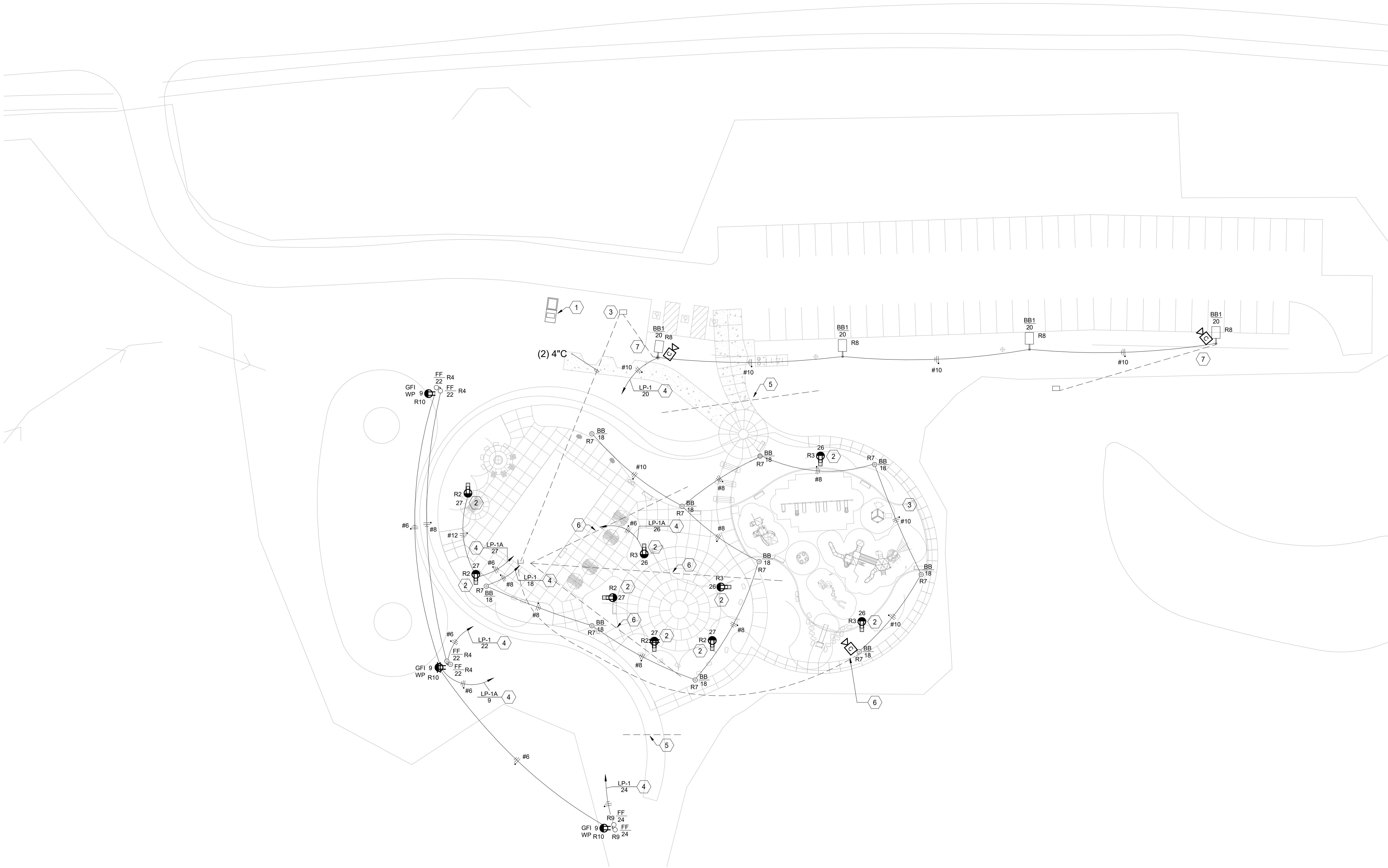
CHECKED BY:

AJT

SHEET NAME:

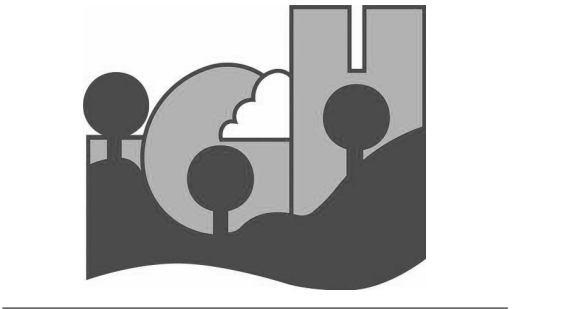
ELECTRICAL
TITLE SHEET

S



Electrical Keyed Notes	
1	Proposed location of utility pad-mount transformer and connection cabinet, coordinate the exact location with utility and owner.
2	Provide a LEGRAND #XPP1G30-BK power pedestal, with weather-resistant GFI receptacle and wet while-in-use surface mounted box. Provide #6AWG wiring, unless noted otherwise.
3	Provide (2) 4" conduits routed from Mechanical Storage Room to an in-grade box provided by others under a separate contract. Provide conduits with innerduct for fiber optic cabling. Stub conduits 6" above floor. Coordinated location(s) of in-grade box with owner and providing contractor.
4	Route circuit through LCP-1 prior to termination in panelboard.
5	Provide a 2" stubbed conduit beneath paved surface.
6	Provide a 1-1/2" SDR 11 Orange HPDE conduit routed underground from Mech. Room to pole light for future camera cabling by others.
7	Provide a 1-1/2" SDR 11 Orange HPDE conduit routed underground from Inground hand-hole (provided by others) to pole light for future camera cabling by others.

General Notes	
A	Refer to the Architectural and Civil plans for phasing and provide connection to the construction trailers as required by the specifications.
B	Fixtures and poles indicated on site plan provided and installed by Xcel Energy, outside of contract.
C	Verify locations with civil plans.



CONSULTANT:

OERTEL
ARCHITECTS
1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105
(651) 696-5186
www.oertelarchitects.com



Paulson & Clark Engineering
Structural | Mechanical | Electrical | Security
2352 E County Road J
White Bear Lake, MN 55110
Office: (651) 407-6056
www.paulsonclark.com

REVISIONS / ISSUE	
NO.	DESCRIPTION

**SOUTH VALLEY PARK
PHASE 1 IMPROVEMENTS**
SOUTH VALLEY PARK
2810 70TH ST E
INVER GROVE HEIGHTS, MN 55076

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.



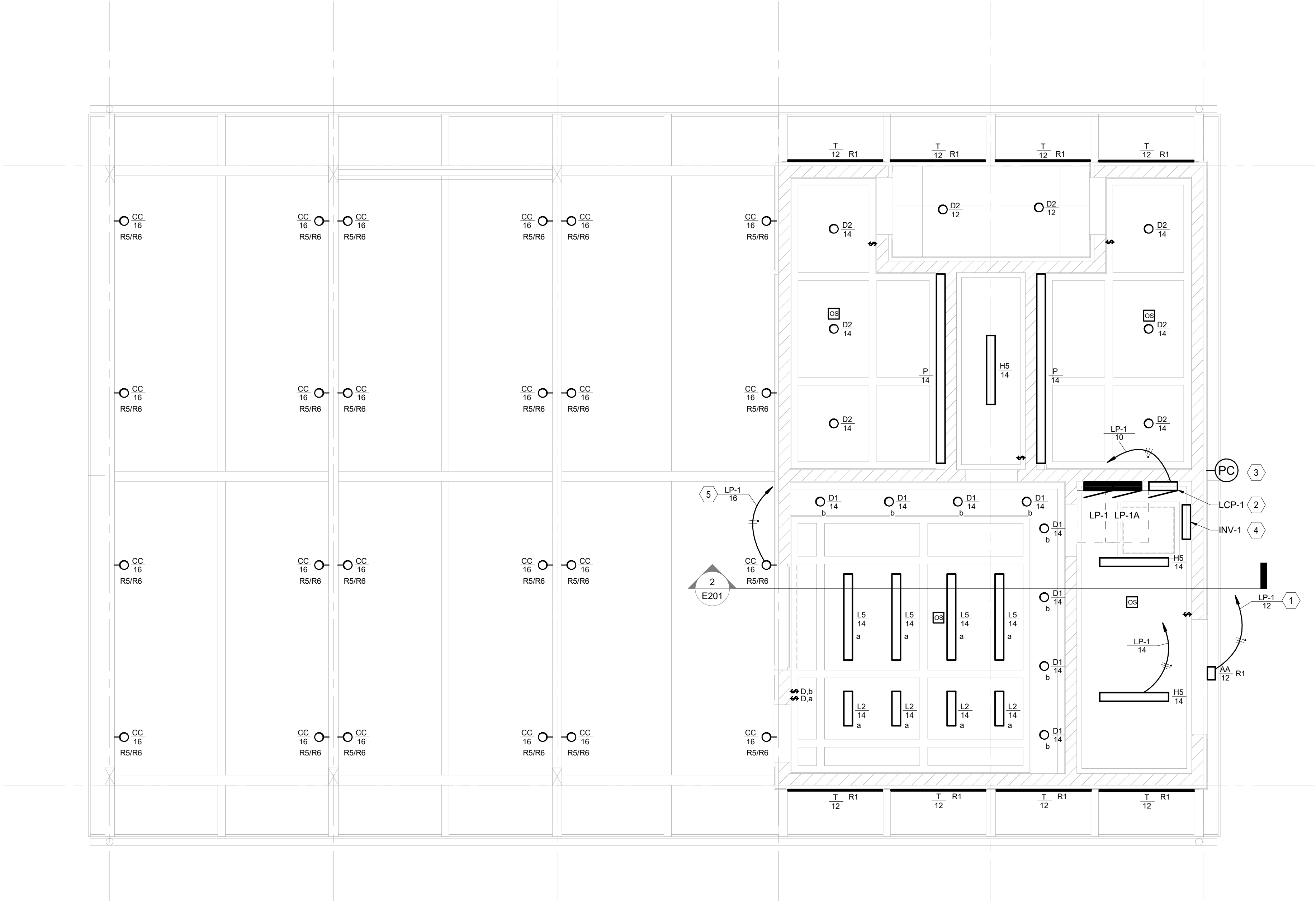
Signature
Andrew J. Tripp
Name
46199 08/12/22
License # Date

PROJECT NUMBER:	20-05
DATE OF ISSUE:	08/12/22
DRAWN BY:	RTA
CHECKED BY:	AJT
SHEET NAME:	

**ELECTRICAL
SITE PLAN**

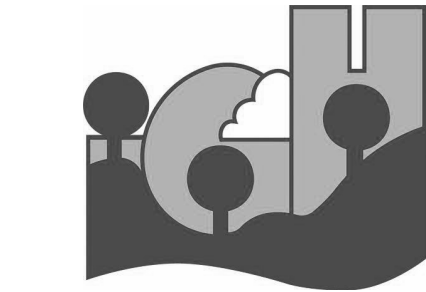
SHEET NO:

E001



General Notes	
A	Conduit and wire connections are not shown. Provide conduit and wire as required for the indicated circuitry.
B	A maximum of three circuits are intended to be installed in a conduit and a maximum of three phase conductors. Multi-wire branch are circuits are not permitted unless specifically noted otherwise.
C	Circuit numbers shown for homeruns to panelboards are not actual circuit numbers, but are used to establish circuling intent. All circuits are 20a-1 pole unless noted otherwise. Provide breakers as required and noted in schedules.
D	For exact location of ceiling mounted electrical devices, equipment, etc., refer to architectural reflected plans (rcp); for wall mounted devices, see architectural elevations. Where discrepancies occur between architectural and engineering plans, notify architect/engineer prior to starting work.
E	Ceiling mounted devices shall be a matching white color.
F	All back boxes and junction boxes shall be recessed mounted.

Electrical Keyed Notes	
1	Route circuit through LCP-1 and inverter prior to termination in panelboard.
2	Provide a NLIGHT #ARP-INTENC16-NLT-16SPR-MVOLT-HLK-SM relay panel and NLIGHT #NPOD-TOUCH-WH touch screen wall switch. Mount touch screen wall switch adjacent to panel.
3	Provide an exterior photocell wired as an input to LCP-1.
4	Provide a IOTA #IIS-375-LED-DR inverter for connection to indicated exterior lighting circuit. Route indicated circuit through inverter prior to termination in panelboard.
5	Provide branch circuiting to fixtures 'Type CC' so that downlight and uplight portions of fixture can be individually controlled. Route downlight branch circuit (R4) and uplight branch circuit (R5) through LCP-1 prior to termination in panelboard.



CONSULTANT:
OERTEL
ARCHITECTS
1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105
(651) 696-5186
www.oertelarchitects.com

Paulson & Clark Engineering
Structural | Mechanical | Electrical | Security
2352 E County Road J
White Bear Lake, MN 55110
Office: (651) 407-6056
www.paulsonclark.com

REVISIONS / ISSUE	
NO.	DESCRIPTION

SOUTH VALLEY PARK
PHASE 1 IMPROVEMENTS
SOUTH VALLEY PARK
2810 70TH ST E
INVER GROVE HEIGHTS, MN 55076

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 J. Tripp

Signature
Andrew J. Tripp
Name
46199 08/12/22
License # Date

PROJECT NUMBER: 20-05
DATE OF ISSUE: 08/12/22
DRAWN BY: RTA
CHECKED BY: AJT

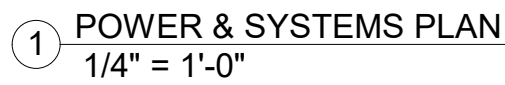
SHEET NAME:

ELECTRICAL
LIGHTING PLAN

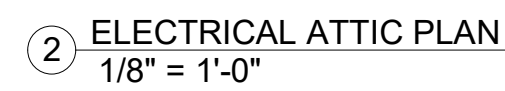
SHEET NO:

E101

1 LIGHTING PLAN
1/4" = 1'-0"



- | Electrical Keyed Notes | |
|------------------------|---|
| 1 | Provide receptacle mounted within Telecommunications Enclosure provided by others. Power & Systems |
| 2 | Route circuit through LCP-1 prior to termination in panelboard. |
| 3 | Provide 2" 4" conduits routed from Mechanical Storage Room to an in-grade box provided by others under a separate contract. Provide conduits with inertduct for fiber optic cabling. Stub conduits 6" above floor. Coordinated location(s) of in-grade box with owner and providing contractor. |



SOUTH VALLEY PARK
2810 70TH ST E
INVER GROVE HEIGHTS, MN 55076

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.

Signature

Andrew J. Tripp

lame

46199

8/12/22

license #

PROJECT NUMBER:

20-05

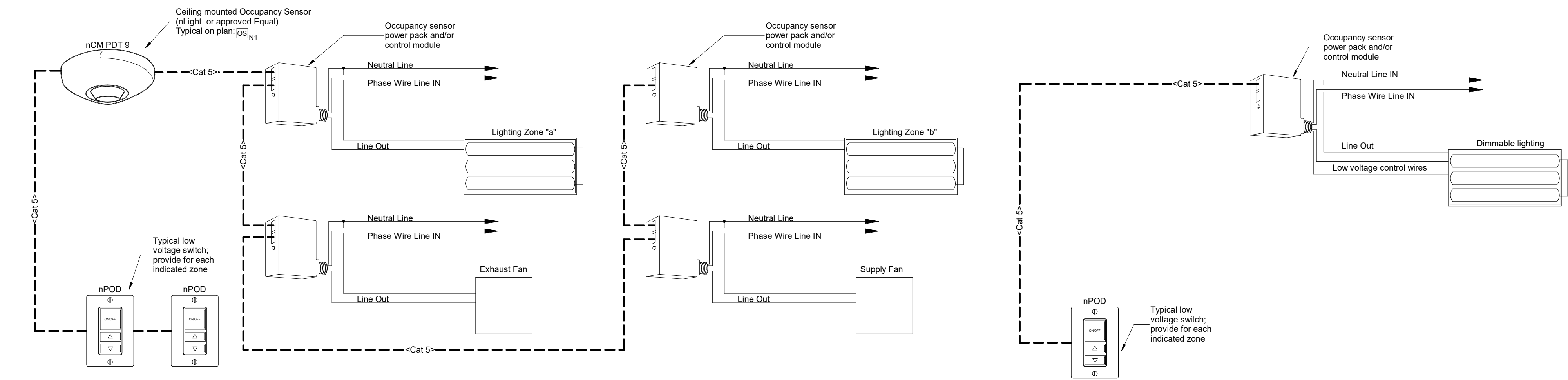
DATE OF ISSUE:

08/12/22

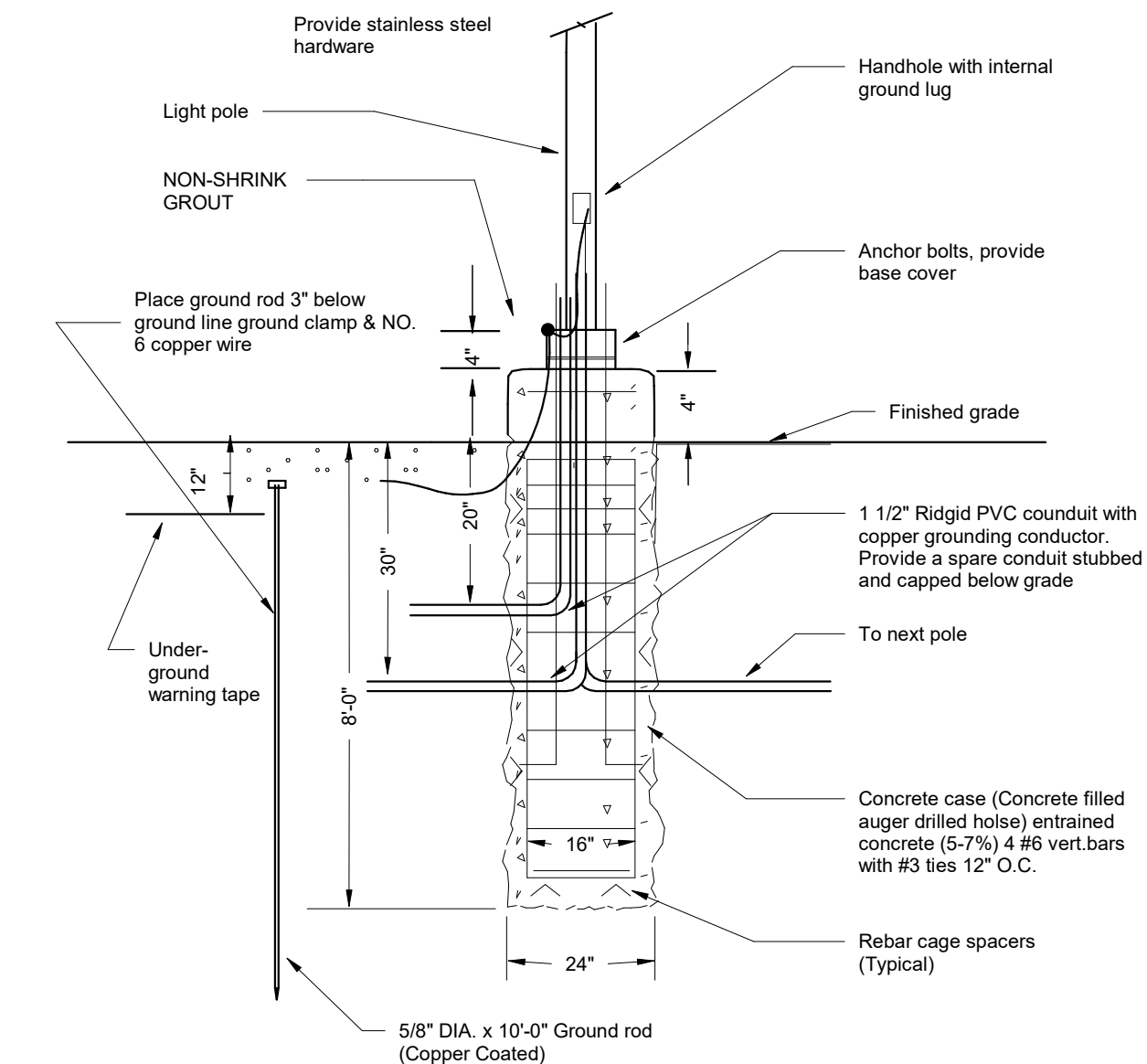
RTA

AJT

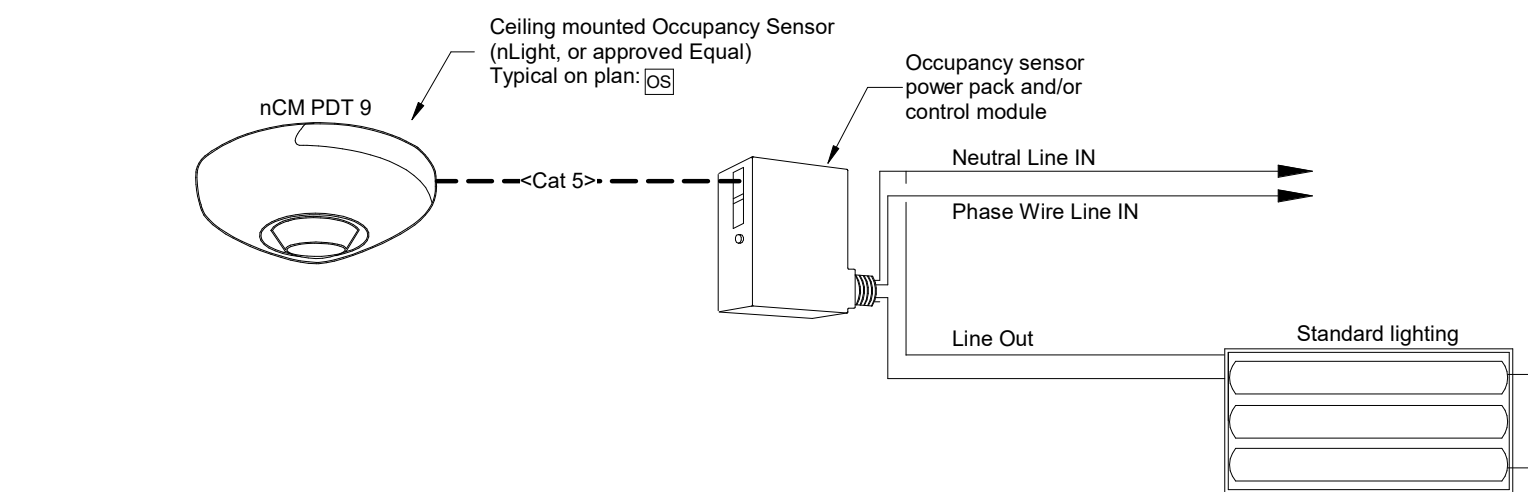
Page 210 of 303



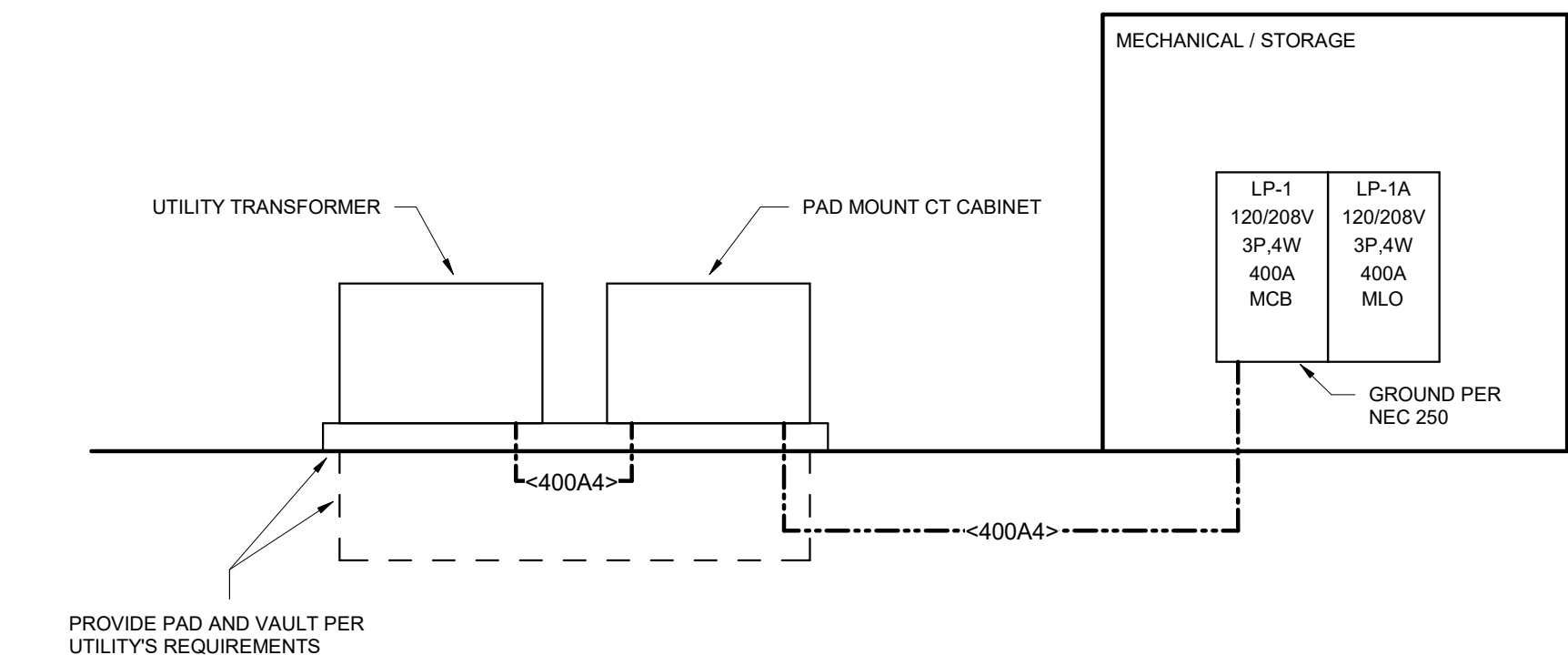
3 Lighting Control - Kitchen
NTS



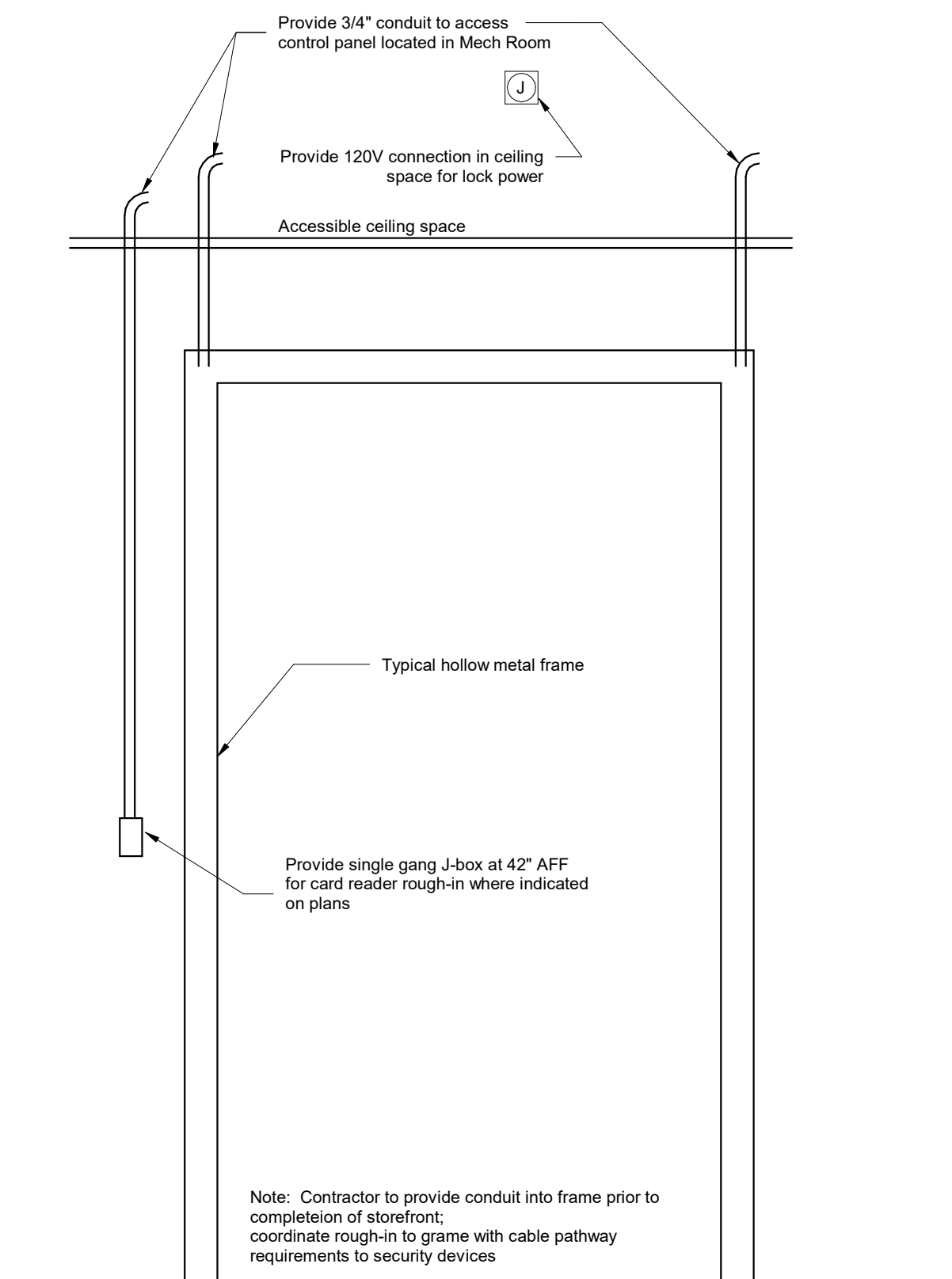
6 Pole Base Detail
NTS



5 Lighting Control (Occupancy Sensor)
NTS



1 Electrical Riser Diagram
NTS



8 Door Rough-in for Security
NTS

Electrical Feeder Schedule		
Feeder Ampacity	3 Wire Feeder	4 Wire Feeder
20 A	1/2"C, 3#12 & 1#12 GND	1/2"C, 4#12 & 1#12 GND
30 A	3/4"C, 3#10 & 1#10 GND	3/4"C, 4#10 & 1#10 GND
50 A	3/4"C, 3#8 & 1#10 GND	1"C, 4#8 & 1#10 GND
60 A	1"C, 3#6 & 1#10 GND	1"C, 4#6 & 1#10 GND
80 A	1"C, 3#4 & 1#8 GND	1 1/4"C, 4#4 & 1#8 GND
100 A	1 1/4"C, 3#3 & 1#8 GND	1 1/4"C, 4#3 & 1#8 GND
125 A	1 1/4"C, 3#1 & 1#6 GND	1 1/4"C, 4#1 & 1#6 GND
150 A	1 1/2" C, 3#1/0 & 1#6 GND	2"C, 4#1/0 & 1#6 GND
175 A	1 1/2"C, 3#2/0 & 1#6 GND	2"C, 4#2/0 & 1#6 GND
200 A	2"C, 3#3/0 & 1#6 GND	2"C, 4#3/0 & 1#6 GND
225 A	2"C, 3#4/0 & 1#4 GND	2 1/2"C, 4#4/0 & 1#4 GND
250 A	2 1/2"C, 3#250 & 1#4 GND	2 1/2"C, 4#250 & 1#4 GND
300 A	2 1/2"C, 3#350 & 1#4 GND	3"C, 4#350 & 1#4 GND
400 A	3"C, 3#500 & 1#3 GND	3 1/2"C, 4#500 & 1#3 GND
500 A	(2) 2 1/2"C, 3#250 & 1#2 GND	(2) 3"C, 4#250 & 1#2 GND
600 A	(2) 3"C, 3#350 & 1#1 GND	(2) 3"C, 4#350 & 1#1 GND
800 A	(2) 3"C, 3#500 & 1#1/0 GND	(2) 3 1/2"C, 4#500 & 1#1/0 GND
1000 A	(4) 2 1/2"C, 3#250 & 1#2/0 GND	(4) 3"C, 4#250 & 1#2/0 GND
1200 A	(4) 3"C, 3#350 & 1#3/0 GND	(4) 3"C, 4#350 & 1#1/0 GND
1600 A	(4) 3 1/2"C, 3#600 & 1#4/0 GND	(4) 4"C, 4#600 & 1#4/0 GND
2000 A	(6) 3"C, 3#400 & 1#250 GND	(6) 3 1/2"C, 4#400 & 1#250 GND
2500 A	(7) 3"C, 3#500 & 1#350 GND	(7) 3 1/2"C, 4#500 & 1#350 GND
3000 A	(8) 3 1/2"C, 3#500 & 1#400 GND	(8) 3 1/2"C, 4#500 & 1#400 GND
4000 A	(11) 3 1/2"C, 3#500 & 1#500 GND	(11) 4"C, 4#500 & 1#500 GND

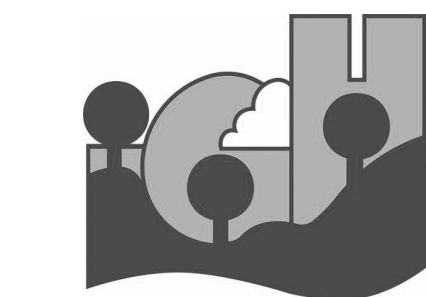
<100A3G> 100A 3 G

Amperage ———>

of Conductors ———>

G = Ground Required ———>

Notes:
* Optional installation, unless noted otherwise.
(#) = Provide parallel sets of conductors as indicated.



CONSULTANT:

**OERTEL
ARCHITECTS**
1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105

(651) 696-5186
www.oertelarchitects.com

Paulson & Clark Engineering
Structural | Mechanical | Electrical | Security
2352 E County Road J
White Bear Lake, MN 55110
Office: (651) 407-6056
www.paulsonclark.com

REVISIONS / ISSUE

NO.	DATE	DESCRIPTION

**SOUTH VALLEY PARK
PHASE 1 IMPROVEMENTS**

**SOUTH VALLEY PARK
2810 70TH ST E
INVER GROVE HEIGHTS, MN 55076**

PROJECT NAME:

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 J. Tripp

Signature

Andrew J. Tripp

Name

46199

License #

08/12/22

Date

PROJECT NUMBER:

20-05

DATE OF ISSUE:

08/12/22

DRAWN BY:

RTA

CHECKED BY:

AJT

SHEET NAME:

**ELECTRICAL
DETAILS**

SHEET NO.:

E300

Mechanical Equipment Schedule																	
Equipment Number	Description	Size	Voltage	Phase	Disc. By	Disc. Type	Disc. Size	Disc. Poles	Disc. Location	Starter By	Starter Type	Starter Size	Starter Location	Panel	Circuit Number	Feeder	Elec Notes
EBLR-1	Electric Boiler	12 kW	208 V	3	Elec	NFS	60A	3	At Unit	Mech	N/A	-	W/ Unit	LP-1	1,3,5	<50A3G>	
ECUH-1	Electric Cabinet Unit Heater	5kW	208 V	3	Mech	-	-	-	W/ Unit	Mech	N/A	-	W/ Unit	LP-1	7,9,11	<20A3G>	
ECUH-2	Electric Cabinet Unit Heater	5kW	208 V	3	Mech	-	-	-	W/ Unit	Mech	N/A	-	W/ Unit	LP-1	13,15,17	<20A3G>	
EF-1	Exhaust Fan	135 W	120 V	1	Elec	MSS	30A	1	At Unit	Elec	Power Pack	-	At Unit	LP-1	2	<20A2G>	1
EF-2	Exhaust Fan	135 W	120 V	1	Elec	MSS	30A	1	At Unit	Elec	Power Pack	-	At Unit	LP-1	2	<20A2G>	1
EF-3	Exhaust Fan	1/6 HP	120 V	1	Elec	MSS	30A	1	At Unit	Elec	Power Pack	-	At Unit	LP-1	4	<20A2G>	1
EF-4	Exhaust Fan	54 W	120 V	1	Elec	MSS	30A	1	At Unit	Mech	T-STAT	-	Mech Room	LP-1A	29	<20A2G>	2
EHC-1	Electric Heating Coil	15kW	208 V	3	Mech	-	-	-	W/ Unit	Mech	N/A	-	W/ Unit	LP-1	19,21,23	<60A3G>	
P-1	Pump	1/6 HP	120 V	1	Elec	MSS	30A	1	At Unit	Mech	N/A	-	-	LP-1	8	<20A2G>	
RCP-1	Recirculation Pump	60W	120 V	1	Elec	MSS	30A	1	At Unit	Mech	N/A	-	-	LP-1	28	<20A2G>	
SF-1	Supply Fan	1/6 HP	120 V	1	Elec	MSS	30A	1	At Unit	Mech	Power Pack	-	At Unit	LP-1	6	<20A2G>	1
WHT-1	Electric Water Heater	4kW	208 V	3	Elec	NFS	30A	3	At Unit	Mech	N/A	-	-	LP-1	25,27,29	<20A3G>	

Mechanical Equipment Notes:

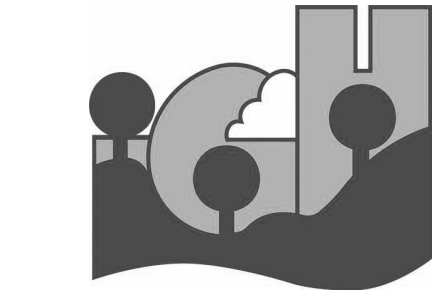
1. Provide a Power Pack (nLight #rPP20, or Equal) compatible with the lighting control system. Fans shall be interlocked with the lights such that whenever the lights are on, the fans are on.
2. Route Circuit through 120V T-STAT provided by Mech.

Light Fixture Schedule					
Type Mark	Description	Input Power	Lamp Type	Voltage	Manufacturer
D1	Downlight	18 VA	LED	MVOLT	LITHONIA #LDN6-35/15-LO6AR-LSS-MVOLT-GZ1
D2	Downlight, Vandal Resistant	29 VA	LED	MVOLT	GOTHAM #EVO2VR-35/20-LFT-MWD-MVOLT-UGZ-DWHG
H5	4' Striplight	41 VA	LED	MVOLT	LITHONIA #ZL1D-L48-5000LM-FST-MVOLT-35K-80CRI-WH
L2	2' Recessed Linear, Flush Lens	20 VA	LED	MVOLT	MARK LIGHTING #SL6L-LOP-2'-FLP-FL-80CRI-35K-1200LMF-MIN1-120-ZT
L5	5' Recessed Linear, Flush Lens	50 VA	LED	MVOLT	MARK LIGHTING #SL6L-LOP-5'-FLP-FL-80CRI-35K-1200LMF-MIN1-120-ZT
P	11' Recessed Perimeter	53 VA	LED	MVOLT	MARK LIGHTING #SPRLED-LOP-11FT-RLP-FL-80CRI-35K-450LMF-MIN1-MVOLT
T	LED Tape Light (per 1ft section)	6 VA	LED	MVOLT	KLUS #C0758-A-FC-35-1820/1-24-P-IP67
AA	Exterior Wall Pack	18 VA	LED	MVOLT	LITHONIA #WDGE1 LED P1 40K 80CRI VF
BB	Pathway Lighting, 14' SS Pole, Mounted to Base	70 VA	LED	MVOLT	KIM LIGHTING #UR20-28L-65-3K7-5W-UNV-ASQ-DBT
BB1	Parking Lot Area Lighting, 23' SS Pole, Mounted to Base	110 VA	LED	MVOLT	KIM LIGHTING #UR20-56L-110-3K7-4-UNV-ASQ-DBT
CC	Wall Mount Direct/Indirect Cylinder	29 VA	LED	MVOLT	GOTHAM #ICO4UDWC-30/10-AR-LSS-60D-U10LM-U60D-MVOLT-GZ1-JBX-WL-DDBT
FF	Flood Light, 23' SSS Pole	371 VA	LED	MVOLT	HYDREL #8200-LED-30K-MVOLT-MFL-YM-PMT-DDB

Lighting Control Panel (LCP-1)				
Relay	Voltage	Panel	Circuit	Description
R1	120 V	LP-1	12	
R2	120 V	LP-1A	27	
R3	120 V	LP-1A	26	
R4	120 V	LP-1	22	
R5	120 V	LP-1	16	Downlight Portion Control
R6	120 V	LP-1	16	Uplight Portion Control
R7	120 V	LP-1	18	
R8	120 V	LP-1	20	
R9	120 V	LP-1	24	
R10	120 V	LP-1A	9	

Branch Panel: LP-1													
Location: MECH./STORAGE					Volts: 120/208 Wye			A.I.C. Rating: 35kA					
Supply From: UTILITY					Phases: 3			Mains Type: MCB					
Mounting: Surface					Wires: 4			Mains Rating: 400 A					
Enclosure: NEMA 1					Feed-Thru Lugs: Yes			Bussing: 400 A Cu					
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EBLR-1	50 A	3	4000...	271 VA					1	20 A	EF-1, EF-2	2
3	--	--	--			4000...	528 VA			1	20 A	EF-3	4
5	--	--	--					4000...	528 VA	1	20 A	SF-1	6
7	ECUH-1	20 A	3	1667...	528 VA					1	20 A	P-1	8
9	--	--	--			1667...	180 VA			1	20 A	LCP-1	10
11	--	--	--					1667...	323 VA	1	20 A	Lighting	12
13	ECUH-2	20 A	3	1667...	822 VA					1	20 A	Lighting	14
15	--	--	--			1667...	698 VA			1	20 A	Lighting PICNIC SEATING AREA	16
17	--	--	--					1667...	700 VA	1	20 A	Lighting; Pathway	18
19	EHC-2	60 A	3	5000...	440 VA					1	20 A	Lighting; Parking Lot	20
21	--	--	--			5000...	1482...			1	20 A	Flood Lights	22
23	--	--	--					5000...	741 VA	1	20 A	Flood Lights	24
25	WHT-1	20 A	3	1333...	180 VA					1	20 A	Receptacle; Irrigation Controller	26
27	--	--	--			1333...	60 VA			1	20 A	RCP-1	28
29	--	--	--					1333...					30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
Total Load:				18730 VA		20036 VA		18615 VA					
Total Amps:				156 A		167 A		155 A					
Load Classification				Connected Load	Demand Factor	Estimated Demand	Panel Totals						
Electric Heat				27002 VA	125.00%	33752 VA							
HVAC				11464 VA	125.00%	14330 VA	Total Conn. Load: 57201 VA						
Lighting				5328 VA	125.00%	6660 VA	Total Est. Demand: 69149 VA						
Motor				588 VA	100.00%	588 VA	Total Conn. Current: 159 A						
Other				360 VA	100.00%	360 VA	Total Est. Demand...: 192 A						
Power				3999 VA	125.00%	4999 VA							
Receptacle				8460 VA	100.00%	8460 VA							
Notes:													

Branch Panel: LP-1A													
Location: MECH./STORAGE				Volts: 120/208 Wye				A.I.C. Rating: 35kA					
Supply From: LP-1				Phases: 3				Mains Type: MLO					
Mounting: Surface				Wires: 4				Mains Rating: 400 A					
Enclosure: NEMA 1				Feed-Thru Lugs: Yes				Bussing: 400 A Cu					
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle KITCHEN (GFI Breaker)	20 A	1	180 VA	180 VA					1	20 A	Receptacle KITCHEN (GFI Breaker)	2
3	Receptacle KITCHEN	20 A	1			180 VA	180 VA			1	20 A	Receptacle KITCHEN	4
5	Receptacle KITCHEN	20 A	1					180 VA	180 VA	1	20 A	Receptacle KITCHEN	6
7	Receptacle KITCHEN	20 A	1	180 VA	122 VA					1	20 A	Lighting	8
9	Receptacle	20 A	1			540 VA	180 VA			1	20 A	Receptacle KITCHEN	10
11	Receptacle KITCHEN	20 A	1					180 VA	180 VA	1	20 A	Receptacle KITCHEN	12
13	Receptacle KITCHEN	20 A	1	180 VA	180 VA					1	20 A	Receptacle PICNIC SEATING...	14
15	Receptacle PICNIC SEATING...	20 A	1			180 VA	180 VA			1	20 A	Receptacle PICNIC SEATING...	16
17	Receptacle PICNIC SEATING...	20 A	1					180 VA	180 VA	1	20 A	Receptacle PICNIC SEATING...	18
19	Receptacle PICNIC SEATING...	20 A	1	180 VA	180 VA					1	20 A	Receptacle PICNIC SEATING...	20
21	Receptacle KITCHEN	20 A	1			180 VA	540 VA			1	20 A	Receptacle	22
23	Receptacle	20 A	1					720 VA	720 VA	1	20 A	Receptacle	24
25	Receptacle	20 A	1	720 VA	720 VA					1	20 A	Receptacle	26
27	Receptacle, Site	20 A	1			900 VA	360 VA			1	20 A	Receptacle MECH./ STORAGE	28
29	EF-4	20 A	1					136 VA					30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
Total Load:				2822 VA		3420 VA		2656 VA					
Total Amps:				24 A		29 A		22 A					
Load Classification				Connected Load	Demand Factor	Estimated Demand	Panel Totals						
HVAC				136 VA	125.00%	170 VA							
Lighting				122 VA	125.00%	152 VA							
Other				360 VA	100.00%	360 VA							
Receptacle				8280 VA	100.00%	8280 VA							
Notes:													



CONSULTANT:



OERTEL

ARCHITECTS

1795 ST. CLAIR AVENUE
ST. PAUL, MN 55105

(651) 696-5186
www.oertelarchitects.com



Paulson & Clark Engineering

Structural | Mechanical | Electrical | Security

2352 E County Road J
White Bear Lake, MN 55110
Office: (651) 407-6056
www.paulsonclark.com

REVISIONS / ISSUE		DESCRIPTION		DATE	
NO.					

SOUTH VALLEY PARK
PHASE 1 IMPROVEMENTS
SOUTH VALLEY PARK
2810 70TH ST E
INVER GROVE HEIGHTS, MN 55076

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 J. Tripp

Signature

Andrew J. Tripp

Name

46199 08/12/22

License # Date

PROJECT NUMBER:	20-05
DATE OF ISSUE:	08/12/22
DRAWN BY:	RTA
CHECKED BY:	AJT

Request for Council Action**SUBJECT: Acceptance of January 1 - July 31, 2022 Donations and Sponsorships for the Parks & Recreation Department****MEETING DATE:** August 22, 2022**ITEM TYPE:** Consent Agenda**CONTACT:** Julie Dorshak, Recreation Superintendent, 651.450.2588**ACTION REQUESTED**

The Council is asked to adopt the attached Resolution, authorizing acceptance of donations and sponsorships to the Parks and Recreation Department from January 1 through July 31, 2022.

BACKGROUND

The City of Inver Grove Heights is generally authorized to accept donations of real and personal property pursuant to MN Statutes Section 465.03 for the benefit of its citizens. The Parks and Recreation Department receives various donations, sponsorships and grants from businesses and other organizations to support and enhance recreation programs and events.

The table below provides a summary of recent donations and a list of specific contributors is attached.

Business/Organization	Amount/Value	Purpose
Various Businesses	\$ 350	Program Scholarships
Various Businesses	\$6,525	Miscellaneous Youth and Family Programs
Various Businesses	\$1,850	Safety Camp
TOTAL	\$ 8,725	

FISCAL IMPACT

The Parks and Recreation Department has two sponsorship drives each year, one in February/March to seek sponsors for spring and summer programs and the second in October for the Holidays in the Heights events. These sponsorships are crucial to creating opportunities for community engagement with our local businesses and organizations, as well as financially beneficial to our programs and events. Having sponsors allows staff to provide quality and affordable programs and services to the Inver Grove Heights residents.

RECOMMENDATION

Staff recommends to Approve Resolution to Authorize and Accept January 1-July 31, 2022 Donations and Sponsorships to the Parks and Recreation Department.

At its August 10, 2022 meeting, the Park and Recreation Advisory Commission voted unanimously to recommend approval to Authorize and Accept January 1-July 31, 2022 Donations and Sponsorships to the Parks and Recreation Department.

ATTACHMENTS

1. Resolution Accepting Donations
2. Jan-July 2022 Donations List

RESOLUTION NO. _____

**CITY OF INVER GROVE HEIGHTS
DAKOTA COUNTY, MINNESOTA**

A RESOLUTION AUTHORIZING AND ACCEPTING DONATION

WHEREAS, the City of Inver Grove Heights (City) is generally authorized to accept donations of real and personal property pursuant to Minnesota Statutes Section 465.03 for the benefit of its citizens, and is specifically authorized to accept gifts; and

WHEREAS, various businesses donate money and goods to the City, which are to be used for supporting Parks and Recreation programs; and

WHEREAS, such donations has been contributed to the City for the benefit of its citizens, as allowed by law; and

WHEREAS, the City is appreciative of the donation and finds that it is appropriate to accept the donation.

NOW, THEREFORE, be it resolved that the City Council of the City of Inver Grove Heights does hereby accept the donation of funds and in kind product in the amount of \$8,725 to be used for a variety of programs as shown in attached document.

Approved by the City Council of the City of Inver Grove Heights, Minnesota this 22 day of August, 2022.

INVER GROVE HEIGHTS

Tom Bartholomew, Mayor

ATTEST:

Rebecca Kiernan, City Clerk

January 1, 2022 - July 31, 2022 Donations

Company	Amount		
Programs			
			Notes on In-Kind or other
R30600 - Holiday Special Events		916.67	
Ghostly Gathering	166.67		Smile Doctors
Ghostly Gathering	250.00		Dr. Jennifer Orthodontics
Lets Pawty	250.00		Volkswagon of IGH
Lets Pawty	250.00		Frattalones Company
R30720 - Summer Special Events		1,666.67	
Food Trucks	166.67		Smile Doctors
Food Trucks	250.00		Dr. Jennifer Orthodontics
Food Trucks	250.00		Liberty Mutual Insurance
Terrific Tuesdays	500.00		River Heights Arts Alliance
Terrific Tuesdays	250.00		Therapy OPS
Touch a Truck	250.00		Therapy OPS
R20680 - Summer Specialty Camps		1,850.00	
Safety Camp	100.00		Youmans Insurance
Safety Camp	1,000.00		Total Construction
Safety Camp	250.00		Mauer Chevrolet
Safety Camp	250.00		Frattalone Companies
Safety Camp	250.00		Therapy OPS
R31000 - Family Programs		1,750.00	
Harmon Farms Trail Run	250.00		B52's
Harmon Farms Trail Run	500.00		Frattalones
Movie in the Park	1,000.00		Integrity Woven Wire
R40140 - Youth Soccer	166.66	166.66	Smile Doctors
R40140 - Youth Leagues- basketball	250.00	250.00	Therapy OPS
C65100 -Kids Rock	250.00	250.00	Volkswagon of IGH
C15500 - Special Events		1,250.00	
Healthy Living Fair	250.00		Simply Nutrition
Healthy Living Fair	1,000.00		Humana
	8,100.00		
Miscellaneous- In Kind			
Ice Show - provided food and beverages for skaters	250.00		Great River Figure Skating Club
Gift Card Ghostly Gathering	25.00		Gertens
	275.00		
Miscellaneous			
R90300 - Scholarships	250.00		Cut Fruit Express
R90300 - Scholarships	100.00		Edward Jones
	350.00		
Total Donations - Jan -July 2022	\$8,725.00	8,725.00	

Request for Council Action

SUBJECT: **3rd Reading of Ordinance Amending City Code Related to the Discharge of Bows and Arrows**

MEETING DATE: August 22, 2022

ITEM TYPE: Regular Business

CONTACT: Melissa Chiodo, Police Chief, 651.450.2526

ACTION REQUESTED

The Council is asked to consider the third reading of an ordinance amending Title 5, Chapter 6 of the City Code related to the discharge of bows and arrows.

BACKGROUND

The Police Department is responsible for oversight, registration, enforcement, and regulation of bow hunting within the city limits. Due to changing land uses, development and community concerns, Police Department staff discussed with the Council some potential changes to City Code provisions governing bow hunting, Sections 5-6-1(C) and (D). Staff asked Council to provide direction as to what changes, if any, should be made to this city ordinance during the May 2022 Council Work Session.

The proposed changes remove much of the burden placed on Police Department resources by current regulations that require hunters to register with the Police Department and provide proof of their proficiency with a bow. The proposed changes also discontinue the practice of allowing multiple parcels to be combined together in order to equal an approved hunting site.

The attached ordinance has been modified since it was presented to the Council for a continued second reading at the August 8 Council meeting, following the Council discussion at that meeting. Specifically, the following changes have been made to the draft ordinance:

- The discharge of bows and arrows for hunting or target practice is allowed on all parcels 2.5 acres or larger that are located within the designated hunting area on the map to be approved by the Council at its August 22 meeting.
- The property owner(s) and anyone the owner(s) grant written permission to may discharge bows and arrows on eligible parcels. Only the owner(s) of the property may grant permission for persons to hunt on their property. Tenants may not.
- Clarifications were made to the distance requirements for discharge of bows and arrows from residential and commercial structures and driveways to clarify that the owner of an eligible parcel and anyone hunting or engaging in target practice with the permission of the owner(s) may discharge a bow and arrow within 300 feet from a structure or 200 feet from a driveway located on the parcel where the discharge of bows and arrows is permitted. Discharge of bows

and arrows is still prohibited within 300 feet from structures and 200 feet from driveways on adjacent properties.

As presented for a third reading, the proposed revisions to City Code would restrict bow hunting within the city limits as follows:

1. To parcels located within a designated area of the city, as noted on an updated map.
2. Parcels within the designated area must be at least 2.5 acres in size.
3. Hunting is only allowed by the owner(s) of the property and individuals with written permission of the owner(s).
4. All hunting and hunters must be in compliance with all DNR rules and regulations.

FISCAL IMPACT

Currently, the Police Department invests many staff hours updating hunting maps, processing hunting applications and maintaining a list of private properties that citizens don't want to allow hunting on. With the ordinance change, the Department would no longer need to spend staff hours on this work.

RECOMMENDATION

The Police Department recommends approval of the third reading of the attached ordinance amending Title 5, Chapter 6 of the City Code related to the discharge of bows and arrows.

ATTACHMENTS

1. Revised 2nd Reading Bow Hunting Ordinance

**CITY OF INVER GROVE HEIGHTS
DAKOTA COUNTY, MINNESOTA**

ORDINANCE NO. _____

**AN ORDINANCE AMENDING INVER GROVE HEIGHTS CITY CODE, TITLE 5,
CHAPTER 6, SECTION S 1(C) and 1(D) RELATED TO THE DISCHARGE OF BOWS
AND ARROWS**

THE CITY COUNCIL OF THE CITY OF INVER GROVE HEIGHTS ORDAINS AS
FOLLOWS:

Section One. Amendment. Section 5-6-1(C) and (D) of the Inver Grove Heights City Code is hereby amended as follows. The ~~struck-out text~~ shows the deleted wording and the underlined text shows the language added to the code:

C. Restrictions On Use Of Bow And Arrow:

1. The shooting or discharge of any bow and arrow within the city is hereby prohibited except in any of the following circumstances:

~~—a. While hunting or engaged in target practice in that geographic portion of the city designated on the map, effective September 17, 2016, on file with the city clerk as the area available for hunting or target practice, subject to the conditions hereafter set forth; the above identified map is hereby approved and hereby incorporated by reference and made a part of this section; or~~

— ab. While engaged in target practice within an enclosed structure; or

bc. While engaged in target practice at a posted and designated archery range in a city park; or

cd. While engaged in target practice on school or college grounds as part of an instructional course or supervised recreational activity and only with the permission of the school or college; ~~or~~

de. While engaged in target practice at a licensed commercial archery range; ~~or~~

~~—e. While engaged in target practice or hunting activities on an individual parcel two and a half (2.5) or more acres in size located in that geographic portion of the city designated on the map, effective August 8, 2022, on file with the city clerk and in accordance with all Department of Natural Resources rules and requirements for such hunting activities; or~~

fe. While engaged in deer management activities pursuant to a Council resolution specifically authorizing such the deer management activities.

2. Provided, however, the shooting or discharge of a bow and arrow under the circumstances described in subsection C1 ~~of this section~~ relating to hunting or target practice on parcels of at least 2.5 acres in size located in that geographic portion of the city designated on the map, effective ~~September 17, 2016~~ July 25, 2022, on file with the city clerk shall only occur if the following conditions are met:

~~_____ a. All persons who are hunting must register with the police department and must also provide a copy of their hunting license. Hunters who will be hunting on someone else's property will be required to show written permission from the property owner and must also provide proof of proficiency. Property owners/tenants, and all those related individuals as hereafter defined by this section, who hunt on their own property will not need to provide proof of proficiency. Proof of proficiency may be obtained at a local or regional archery range or outdoor sporting goods store, the measure of which is the ability to shoot five (5) of five (5) arrows into a four inch (4") target at twenty (20) yards. The proficiency test must be completed every twenty four (24) months from the original certification date.~~

~~____—ab. There shall be no shooting or discharge of any bow and arrow within three hundred feet (300') of any residential or commercial structure; provided, however, the prohibition contained in this subsection C2ab shall not apply: 1) if the person shooting or discharging the bow and arrow owns the residential or commercial structure or 2) if the owner of the residential or commercial structure consents in writing to allow shooting or discharge of a bow and arrow within three hundred feet (300') of such residential or commercial structure and the written consent is filed with the city police department prior to the shooting or discharge.~~

~~____—b e. There shall be no shooting or discharge of any bow and arrow within two hundred feet (200') of any driveway not owned by the person engaged in the shooting or discharge, unless the owner of the driveway consents in writing and files the written consent with the city police department prior to the shooting or discharge.~~

~~__ cd. There shall be no shooting or discharge of any bow and arrow within two hundred feet (200') of any public street or private roadway.~~

d. There shall be no shooting or discharge of any bow and arrow within two hundred feet (200') of any city, state, or county owned park property.

~~_____ e. On an individual parcel less than five (5) acres in size, no shooting or discharge of a bow and arrow shall occur unless allowed under subsections C2f and C2g of this section.~~

fe. On an individual parcel of two and one-half (2.5) acres or more in size but less than five (5) acres in size, the owners of the parcel, the tenants residing on~~ef~~ the parcel, and the spouses, parents, children, grandparents, aunts, uncles, brothers and sisters of the owners or tenants may shoot or discharge a bow and arrow on such parcel for hunting or target purposes.

~~_____ g. On contiguous parcels that are cumulatively five (5) acres or more in size when combined, the owners of the parcels, the tenants of the parcels and the spouses, parents, those receiving written permission from all the owners may shoot or discharge a bow and arrow on such parcels for hunting or target purposes if the owners of the contiguous parcels in writing consent to the use of the parcels for such purposes and the owners have filed the written consent with the city police department prior to the shooting or discharge.~~

__h. On parcels at least two and a half (2.5) acres in size but less than five acres in size, only the owners of the parcel and other individuals residing on the parcel may

~~shoot or discharge a bow and arrow on such parcels for hunting or target practice purposes.~~

~~f.~~ On an individual parcel of five (5) acres or more in size, only the owners of the parcel, ~~the tenants of the parcel and the spouses, parents, children, grandparents, aunts, uncles, brothers and sisters of the owners or tenants~~ and those receiving written permission from the owner may shoot or discharge a bow and arrow on such parcel for hunting or target practice purposes.

~~gi.~~ In those instances stated above, where written permission from the owner is required, ~~the following additional conditions must be met:~~

~~—— (1) Prior to any shooting or discharge of a bow and arrow, the person receiving the written permission shall file with the city police department the following information in writing: name, address and telephone number of the fee owner and of the persons receiving the permission; the beginning and end dates when hunting or target practice is to occur; a general description of the location of the subject parcel; a copy of the written permission received from the fee owner; as well as proof of proficiency to be obtained at a local or regional archery range or outdoor sporting goods store, the measure of which is the ability to shoot five (5) of five (5) arrows into a four inch (4") target at twenty (20) yards; the license plate number of the vehicle that the person will be driving to the subject parcel; evidence that the person has a valid Minnesota archery license; and emergency contact information.~~

~~—— (21) T~~ the written permission from the ~~fee~~ property owner must specifically state the beginning and end dates for which permission has been granted. The person receiving such permission must have the written permission in possession at all times while hunting or target practicing on the subject parcel. Discharge of the bow and arrow on the subject parcel shall only occur on the dates stated on the written permission. No shooting or discharge of a bow and arrow and no hunting shall occur on the subject parcel if the fee property owner revokes the written permission.

~~hj.~~ The person discharging the bow and arrow for hunting purposes must comply with all the laws and regulations of the state of Minnesota Department of Natural Resources relating to hunting.

~~-3. To facilitate inquiries with respect to which parcels of land are not available for hunting or target practice because the owners thereof decline to grant permission for such activities, the clerk shall maintain a list by owner name and address for such nonavailable parcels. In order for the owner name and parcel address to be placed on the list, the parcel owner must in writing notify the clerk that the owner wishes to be on the list and has decided not to grant permission for hunting or target practice. The name of the owner and the parcel address shall be removed from the list if the owner files a written request with the clerk to remove the owner name and parcel address. The creation of the list is a voluntary program. There is no requirement that an owner and parcel be on the list in order for the owner to decline permission to anyone for hunting or target practice. The purpose of the list is to present an opportunity for an owner to make known that the owner has decided not to grant permission with the result that contacts with the owner are reduced or eliminated.~~

~~—4.— The council, by resolution, may in its discretion on an annual basis add parcels to that geographic portion of the city available for hunting or target practice referenced in subsection C1a of this section. If the council adds additional parcels by resolution, the authorization granted by the resolution and the inclusion of such parcels within the above referenced geographic area shall expire on December 31 of the year when the resolution was passed. If an owner wishes the council to include the owner's parcel within the above referenced geographic area, the owner must make an application to the city no later than August 15 of the year the owner wishes the parcel to be included.~~

D. Shooting Ranges: All owners of commercial rifle ranges, commercial trap ranges, commercial target ranges and commercial archery ranges at any place within the city shall, from and after the effective date hereof, be required to [obtain a license and](#) pay a license fee in the amount established by resolution of the city council. Such ranges shall be operated so as to result in maximum safety to the residents and property of the city, and the owners and operators of such ranges shall comply with all regulations for such ranges that the city may hereinafter enact. Violation of any of the terms of such regulations constitutes a violation of this section and is cause for revocation of the license granted under the terms of this section.

Section Two. Effective Date. This Ordinance shall be in full force and effect upon its passage and publication as provided by law.

Passed in regular session of the City Council of the City of Inver Grove Heights on the ____ day of _____, 2022.

CITY OF INVER GROVE HEIGHTS

By: _____

Thomas Bartholomew, Mayor

ATTEST:

Rebecca Kiernan, City Clerk

Request for Council Action

SUBJECT: **Resolution Adopting Designated Bow Hunting Area Map**

MEETING DATE: August 22, 2022

ITEM TYPE: Regular Business

CONTACT: Melissa Chiodo, Police Chief, 651.450.2526

ACTION REQUESTED

The Council is asked to consider adoption of the attached Resolution, approving a revised map designating bow hunting areas within the City of Inver Grove Heights.

BACKGROUND

The City of Inver Grove Heights permits bow and arrow hunting and target practice conducted in compliance with the requirements found in City Code Title 5, Chapter 6, Section 1 in those areas identified on the bow hunting boundary map adopted by the City Council. The City Council last adopted a revised map designating where bow and arrow hunting and target practice is permitted in 2016.

Following discussion at a Council work session as well as three regular council meetings, the Council directed that the existing bow hunting area map be revised to remove areas of the city where significant residential development has occurred, making it no longer suited for continued bow and arrow hunting and target practice.

The attached map establishes a revised area where bow and arrow hunting and target practice may occur when conducted in compliance with all of the requirements found in Title 5, Chapter 6, Section 1, including the requirements related to minimum lot size and distance from commercial and residential structures, public parks, and public roadways.

FISCAL IMPACT

n/a

RECOMMENDATION

Staff recommends adoption of the attached Resolution, adopting a revised bow hunting area boundary map.

ATTACHMENTS

1. Resolution Approving Revised Bow Hunting Boundary Map
2. Revised Bow Hunting Boundary Map

**CITY OF INVER GROVE HEIGHTS
DAKOTA COUNTY, MINNESOTA**

RESOLUTION NO. _____

RESOLUTION ADOPTING REVISED BOW HUNTING BOUNDARY MAP

WHEREAS, Inver Grove Heights City Code Title 5, Chapter 6, Section 1, permits the discharge of bows and arrows for hunting and target practice on lots of a certain size located within the areas designated as approved for hunting on the City's bow hunting boundary map; and

WHEREAS, the current bow hunting boundary map was last approved in 2016; since that time significant development has occurred in the City's northwest area, and as a result, that area is no longer well suited for inclusion within the designated bow hunting area; and

WHEREAS, a revised bow hunting boundary map has been prepared which includes areas of the City identified by the Council as appropriate for continued bow and arrow hunting and target practice activities.

NOW THEREFORE BE IT RESOLVED, by the City Council of the City of Inver Grove Heights as follows:

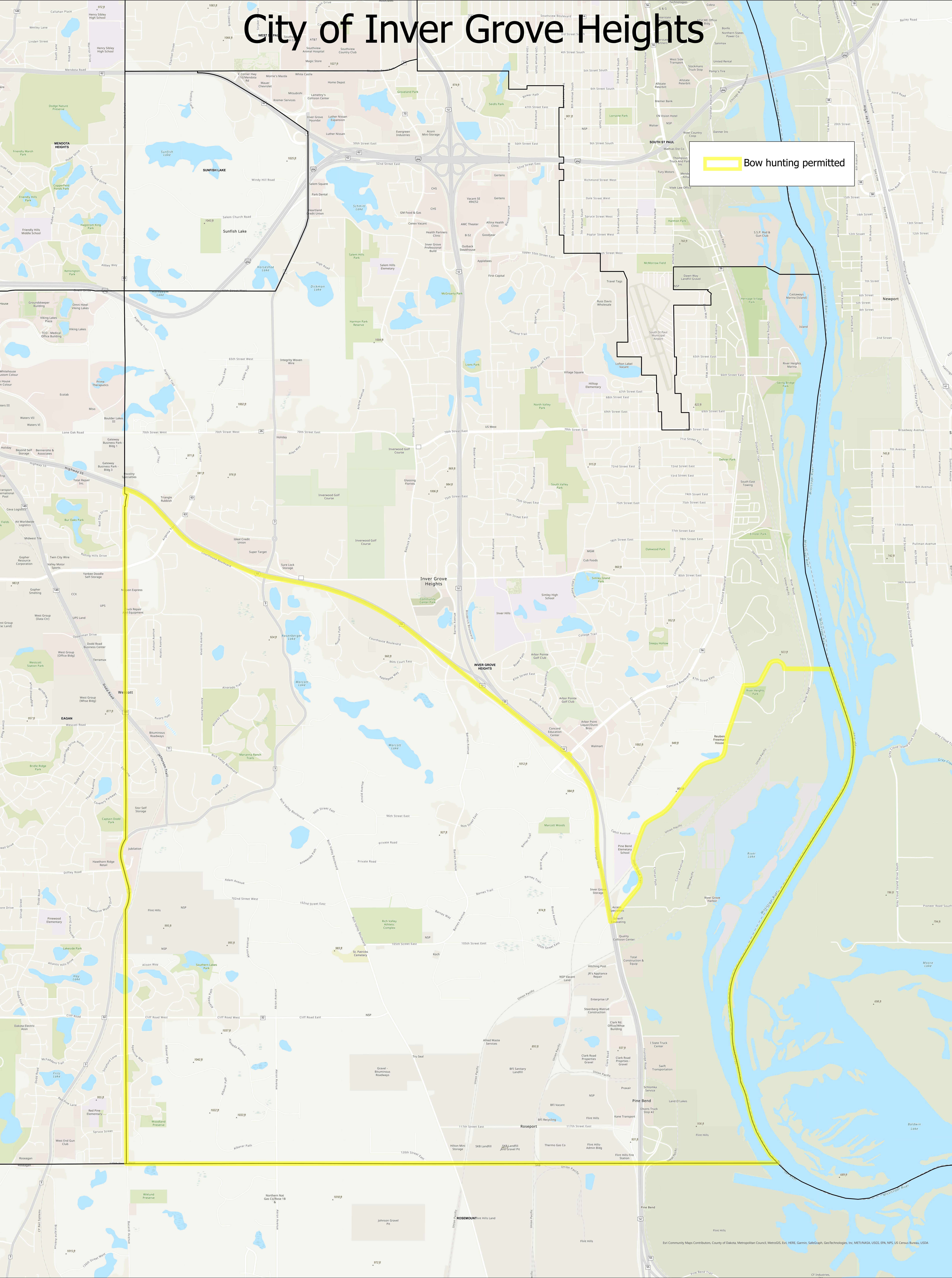
1. The attached revised Bow Hunting Boundary Map is hereby adopted by the City Council.

Passed this 22nd day of August, 2022.

Thomas Bartholomew, Mayor

Attest:

Rebecca Kiernan, City Clerk



City of Inver Grove Heights

Bow hunting permitted

Request for Council Action

SUBJECT: **2nd Reading of Ordinance Amending City Code Chapter 5, Section 12 Related to Unnecessary Noise**

MEETING DATE: August 22, 2022

ITEM TYPE: Regular Business

CONTACT: Bridget Nason, City Attorney, 651.451.1831

ACTION REQUESTED

The Council is asked to approve the second reading of an ordinance amending City Code Chapter 5, Section 12, related to Unnecessary Noise.

BACKGROUND

City Code Chapter 5, Section 12 prohibits loud, unnecessary, or unusual noises or any noise within the City that would be likely to annoy, disturb, injure or endanger the comfort, repose, health, peace or safety of a reasonable person of ordinary sensibilities. The ordinance then goes on to define what constitutes unnecessary noise.

In response to recent challenges regarding construction noise, staff is recommending an amendment to this section of City Code in order to more clearly articulate what constitutes construction noise and to amend the hours during which construction noise is considered unnecessary, and therefore a violation of City Code.

The current code language prohibits construction noise after 10:00 p.m. and before 7:00 a.m. on weekdays and after 9:00 p.m. and before 7:00 a.m. on weekends and holidays. However, in recent years, the City has been instituting construction hours of 7:00 a.m. to 7:00 p.m. by including this as a provision of development agreements and building permits. This has turned out to be less than ideal, because when the police are called to complaints of construction noise after hours and on weekends, our officers are referring to the City Code, which is available to them in their squad cars -- not development agreements which are on file with the Community Development Department.

To ensure the clearest articulation of rules, and allowable hours for construction noise, staff is recommending that City Code be amended to clearly establish the 7:00 a.m. to 7:00 p.m. timeframe, and that these hours be applied seven days a week.

Additionally, when reviewing the current code language and drafting the ordinance to amend the existing language, the City Attorney also took the opportunity to update some language, by removing outdated terminology such as "tape players" and "disc players" from another section of the code.

This second reading version of the ordinance includes two additional revisions proposed by staff in Section 5-5-12(C) (2) and (9) related to noise generated by garbage and recycling trucks and the

construction of public streets and infrastructure. These revisions are highlighted in the attached ordinance.

FISCAL IMPACT

n/a

RECOMMENDATION

Staff recommends approval of the second reading.

ATTACHMENTS

1. 2nd Reading Unnecessary Noise Ordinance

**CITY OF INVER GROVE HEIGHTS
DAKOTA COUNTY, MINNESOTA**

ORDINANCE NO. _____

**AN ORDINANCE AMENDING INVER GROVE HEIGHTS CITY CODE, TITLE 5,
CHAPTER 5, SECTION 12 RELATED TO UNNECESSARY NOISE**

THE CITY COUNCIL OF THE CITY OF INVER GROVE HEIGHTS ORDAINS AS
FOLLOWS:

Section One. Amendment. Section 5-5-12 of the Inver Grove Heights City Code is hereby amended as follows. The deleted text is shown with ~~strike through~~ and the new text is shown underlined:

5-5-12: UNNECESSARY NOISE:

A. General Rule: No person shall make, continue, permit or cause to be made or continued any loud, unnecessary, or unusual noise or any noise within the City that would be likely to annoy, disturb, injure or endanger the comfort, repose, health, peace or safety of a reasonable person of ordinary sensibilities.

B. Unnecessary Noise Defined: An "unnecessary noise" is a noise that:

1. Creates an amplified sound that is audible above the level of conversational speech at a distance of fifty feet (50') or more from the point of origin of the amplified sound. This section would apply to but is not limited to, large assemblies, live music, music from electronic devices, music from motor vehicles, radio, ~~tape player, disc players, speakers, /-~~loudspeakers, horns, and similar devices.

2. Is construction-related activity involving:

a. ~~Unless exempted in subsection C of this section, involves the~~ The operation of domestic power equipment, commercial tools, power tools, motorized equipment, landscaping equipment, or demolition equipment; or ;

b. The construction, remodeling, repair or maintenance of structures, except for work done entirely inside a structure that is not audible on adjacent properties, and demolition equip; or ment

c. The delivery or unloading of equipment and machinery or building, construction, or landscaping materials weighing more than 50 lbs.

The activities described in this section (B)(2) shall not constitute unnecessary noise when conducted between the hours of ~~ten~~ seven o'clock (~~10~~7:00) ~~AP~~.M. and seven o'clock (7:00) PA.M., Monday through Sunday. ~~during weekdays and nine o'clock (9:00) P.M. and seven o'clock (7:00) A.M. on the weekends and holidays.~~ Monday through Sunday.

3. Is otherwise described in section [5-9-2](#) of this title.

C. Exemptions: The following noise events are exempt from the provisions under this section:

1. Fire, police, civil defense, or other emergency signaling devices or vehicles.

2. Garbage, refuse hauling and recycling trucks [operating as permitted under Section 8-6-3 of this code.](#)

3. Noise created exclusively in the performance of emergency work to preserve the public health, safety or welfare, or in the performance of emergency work necessary to restore a public service, [make emergency repairs](#), or eliminate a public hazard.

4. City snow plowing vehicles.

5. Domestic snow removal or lawn cutting equipment when being used as intended.

6. Civic-sponsored parades or festivals lasting no longer than three (3) days and official school district-sponsored athletic events.

7. Anti-theft devices, security alarms, and similar systems, when functioning properly.

8. Church bells, chimes, or other bells, when used for their intended purposes.

9. [Public works construction and maintenance activities by Federal, State, County or City authorities or their contractors, and the construction of public streets, sidewalks, utilities, or other public infrastructure by private contractors is allowed from 7 a.m. until 9 p.m., Monday through Friday, and at such other times as ~~when~~ approved by the Director of Public Works or their designee.](#)

[10. Construction or repair work conducted in response to a significant storm or other natural disaster, when approved in advance by the Chief Building Official.](#)

~~110.~~ All activities and land uses with specific hours of operation that are regulated and approved by the City through a licensing, permitting or zoning process, as long as the activity or use is operating within the designated parameters.

D. Responsible Party: [In addition to any person causing unnecessary noise, Any](#) owner, tenant, resident, occupant or manager of a building, property location, site or vehicle, who has the legal authority to control the activities and who knows or has reason to know of the disturbance [or unnecessary noise](#) and fails to immediately take reasonable steps to abate the disturbance [or unnecessary noise](#) is guilty of violating this section. (Ord. 1364, 2-25-2019)

Section Two. Effective Date. This Ordinance shall be in full force and effect upon its passage and publication as provided by law.

Passed in regular session of the City Council of the City of Inver Grove Heights on the ____ day of _____, 2022.

CITY OF INVER GROVE HEIGHTS

By: _____

Thomas Bartholomew, Mayor

ATTEST:

Rebecca Kiernan, City Clerk

Request for Council Action

SUBJECT: **1st Reading of Ordinance Amending City Code Title 4,
Chapter 13 Related to Rental Licenses**

MEETING DATE: August 22, 2022

ITEM TYPE: Regular Business

CONTACT: Bridget Nason, City Attorney, 651.451.1831

ACTION REQUESTED

The Council is asked to approve the first reading of an ordinance amending certain sections of the City's rental licensing ordinance.

BACKGROUND

The City Council has begun discussing the City's rental licensing ordinance and areas where the ordinance could benefit from revision. The attached reflects somewhat of a "Phase 1" when it comes to addressing concerns and making improvements to the existing codes. Additional phases are likely to be brought forward for Council consideration later this fall, but staff felt there was some urgency in moving these specific components forward now.

The attached ordinance is intended to accomplish the following:

1. Prohibit short-term or vacation rentals with IGH. This is accomplished via the addition of a requirement that there is a minimum lease term of 30 consecutive days.
2. Improve the definition of "family." An issue with this recently came up when considering a rental license for a single family home. As drafted, the ordinance would still allow up to four unrelated individuals to live as roommates in a single family home, but it attempts to prevent rentals to multiple individuals that do not intend to occupy the property as a single household.
3. Addition of a six-month waiting period to re-apply for a license in cases where a license has been revoked or denied.
4. Clarification of the language regarding the application fee and the fact that it is non-refundable in cases where an application is withdrawn or denied.

FISCAL IMPACT

n/a

RECOMMENDATION

Staff recommends that Council approve the first reading of the attached ordinance amending the city's rental licensing requirements.

ATTACHMENTS

1. Ordinance Revising Rental Licensing Standards (1st Reading)

**CITY OF INVER GROVE HEIGHTS
DAKOTA COUNTY, MINNESOTA**

ORDINANCE NO. _____

**AN ORDINANCE AMENDING INVER GROVE HEIGHTS CITY CODE, TITLE 4,
CHAPTER 13, RELATED TO RENTAL LICENSES**

THE CITY COUNCIL OF THE CITY OF INVER GROVE HEIGHTS ORDAINS AS FOLLOWS:

Section One. Amendment. Section 4-13-2 of the Inver Grove Heights City Code is hereby amended as follows. The ~~struck-out text~~ shows the deleted wording and the underlined text shows the language added to the code:

4-13-2: DEFINITIONS:

FAMILY: An individual, or two (2) or more persons related by blood, marriage or adoption, or a group of not more than four (4) persons not so related, living together as a single housekeeping unit maintaining a common residence and sharing using common cooking facilities, bathroom(s), and living spaces.

Section Two. Amendment. Section 4-13-3 of the Inver Grove Heights City Code is hereby amended as follows. The ~~struck-out text~~ shows the deleted wording and the underlined text shows the language added to the code:

4-13-3: LICENSE REQUIRED:

- A. General Rule: No person, partnership, business entity, or corporation shall operate a rental dwelling or rental dwelling unit in the city without a license. The licensee shall be the owner. No dwelling or dwelling unit, other than those exempt from the licensing requirements of this Chapter, shall be rented or let for a period of less than thirty (30) consecutive days.
- D. Application Fees: ~~Rental dwelling owners shall pay a fee as set by resolution adopted by the city council. The license fee is not refundable.~~ Applicants for a license shall pay an application fee in amount set annually by the City Council via resolution. The application fee is due at the time the license application is submitted. The application fee is not refundable, even if the application is withdrawn or denied.

Section Three. Amendment. Section 4-13-8(C) of the Inver Grove Heights City Code is hereby amended as follows. The underlined text shows the language added to the code:

4-13-8: LICENSE HEARING:

4. Reapplication Following License Revocation or Denial: Upon denial or revocation of a license, the owner may not reapply for a license for the same rental dwelling or rental dwelling unit for a period of six months.

Section Four. Effective Date. This Ordinance shall be in full force and effect upon its passage and publication as provided by law.

Passed in regular session of the City Council of the City of Inver Grove Heights on the ____ day of _____, 2022.

CITY OF INVER GROVE HEIGHTS

By: _____

Thomas Bartholomew, Mayor

ATTEST:

Rebecca Kiernan, City Clerk



Request for Council Action

SUBJECT: Consider Approval of Rental Licenses

MEETING DATE: August 22, 2022

ITEM TYPE: Regular Business

CONTACT: Nicole Cook, Rental & Code Compliance, 651.450.2491

ACTION REQUESTED

The Council is asked to consider the approval of Rental Housing Licenses.

BACKGROUND

The City Council adopted a rental licensing ordinance that requires all rental property owners to obtain a rental license every two years. The purpose of the ordinance is to ensure proper maintenance of structures to preserve neighborhood stability, protect the quality of existing rental housing stock and maintain property values. The ordinance provides for basic safety and living standards for rentals.

The following rental license applications have been submitted:

8812 Brunell Way – Ruby Ann Baker

3926 67th Street – Perrin and Jodi Werner

4868 Boatman Lane – Nick Robbins

The above applications have been found to be complete. The applications include the necessary fee payments, and BCA background checks. The City of Inver Grove Heights Police Chief/Designee has also reviewed and approved the license applications.

FISCAL IMPACT

None

RECOMMENDATION

Community Development and Police Department staff recommend approval of the licenses listed above.

ATTACHMENTS

None

Request for Council Action

SUBJECT: **Funding for Trail Extension at Seidls Lake Park**

MEETING DATE: August 22, 2022

ITEM TYPE: Regular Business

CONTACT: Adam Lares, Parks & Recreation Director, 651.450.2587

ACTION REQUESTED

The Council is asked to adopt the attached Resolution, funding the Seidls Lake Park Trail extension project in conjunction with the City of South St. Paul, as they have been awarded a \$250,00 DNR grant for the trail restoration and extension project between the two cities.

BACKGROUND

The City of Inver Grove Heights owns Seidls Lake Park on the south side of the Seidls Lake, which is 30-acres. The City of South St. Paul also owns their version of Seidls Lake Park on the north side of the lake, which is 3-acres. The two cities have master plans for their respective parks, with Inver Grove Heights' plan being created in 2007. Both cities have been committed to the restoration of the Seidls Lake area so that it can serve as the centerpiece of a regional trail system and an amenity for the public to enjoy.

Restoration to the lake is currently broken into a 3 phase project:

Phase 1 – Seidls Lake Lift Station – Construction was completed last fall and the lift station was started up this past spring. State funds totaling \$781,000 were used for this phase.

Phase 2 – Restoration/Habitat Enhancements – Conservation Partners Legacy Funds were applied for last fall and we recently found out that SSP/IGH was awarded \$382,000.

Phase 3 – Trail Reconstruction and Extension – A DNR Local Trail Grants was recently awarded to the City of South St. Paul for \$250k.

Recently, WSB was hired by the City of South St. Paul to complete a shoreline restoration study for Seidls Lake. The study mainly focused on Phases 2 and 3. WSB provided a design memo (copy attached) with a current assessment of the existing conditions and recommendations for consideration related to tree removal, shoreland and slope restoration techniques, native vegetation establishment, trail component, and tree/shrub planting. Overall, constructing phases 2 and 3 together has the potential to result in efficiencies and avoid redundancy since the projects are related.

The request before the IGH Council focuses on Phase 3 - trail reconstruction and extension. This would include reconstruction of 1,680 feet of existing bituminous paved trail within Seidls Lake Park and construction of a 920-foot bituminous trail extension in 2023/2024 where 78% of the trail system is located within the City of IGH (see attached map). The trail along the east side of Seidls Lake is in

very poor condition and needs to be reconstructed. In many locations, the trail is washed away or badly deteriorated. In addition, there is a desire to construct an additional access point and extend the trail to the south, providing a connection to an existing trail in Inver Grove Heights to the trail on the east side of Seidls Lake.

As noted above, the City of South St. Paul applied for and was awarded a \$250,000 DNR grant for the reconstruction and extension of the trail located on the east side of the lake, which is in both South St. Paul and Inver Grove Heights. IGH staff provided a letter of support for the DNR application citing the completion of the proposed trail project that would improve access to the restored Seidls Lake Park area, particularly from the Inver Grove Heights side of the park, which currently lacks access to the shoreline of Seidls Lake. The project would provide opportunities for walking and biking, fishing, wildlife viewing, and other recreational activities. The proposed trail extension will also create a valuable non-motorized connection between residential neighborhoods north of the park in South St. Paul, and the existing trail and playground area at the south end of the park in Inver Grove Heights. (see attached grant application)

Phase 3 has an estimated cost of \$440,000. After the \$250,000 in DNR grant funds is applied to the project cost, the two cities would be responsible for a 50/50 split of the remaining \$190,000 in estimated project costs. This would require an estimated financial contribution of \$95,000 from the City of IGH. As indicated, South St. Paul has agreed to do 50/50 cost share even with 78% of the trail system being within IGH. However, given anticipated inflation and potential trail rerouting to meet ADA design criteria, \$175,000 is a more reliable cost estimate. In addition, prior to providing the letter of support to South St. Paul for the grant application, staff informed them, that we did not have this particular trail in our current Parks CIP, and it has never been brought forth to the City Council for consideration in any short-term or long-term plans.

Additional improvements to Seidls Lake Park began in 2018, when the Council approved replacing 23 year old playground equipment. The cost of the replacement equipment and installation of new concrete curb, side walk, ADA ramps, trail connections and restoration was \$100,000 and was funded by the Park Capital Replacement Fund 444.

In 2019, the IGH City Council approved construction of a timber staircase at Seidls Lake Park, and the purchase of property located adjacent to Seidls Lake Park. The cost of the timber staircase was \$25,000 and the purchase price of the property was \$10,000. Both of these were funded by the Park Acquisition and Development Fund (Fund 402).

FISCAL IMPACT

If approved, funding for the Seidls Lake Trail extension at Seidls Lake Park would come from the City's Park Acquisition and Development Fund (Fund 402).

The chart below shows the current balance of the Park Acquisition and Development Fund (Fund 402), as well as very high-level estimates of allocations for other park needs and projects on the horizon. In summary, it shows that funds are available to proceed with Phase 3 - Trail Project, and develop the identified parks in the City's northwest area (NWA), Heritage Village Park Phase 4, and maintain a healthy balance in the Fund for future needs and opportunities.

Project List	Balance	Year to Complete
Fund 402 Balance as of 6/30/22	\$4,761,413	

Remaining Expenses Vista Pines Park	-\$88,780	2022
Vista Pines Trail Connection Design Services - Kimley Horn	-\$54,400	2022/2023
Vista Pines Trail Construction (not estimated)	-\$200,000	2022/2023
NWA - Peltier Pocket Park Development - (estimated)	-\$500,000	2022/2023
NWA - Highlands Pocket Park Development - (estimated)	-\$500,000	2022/2023
NWA - WSB Park Design (Highlands & Peltier)	-\$61,300	2022/2023
NWA - Park #4 - (estimated)	-\$1,000,000	TBD
Heritage Village Park – Phase 4 (estimated after DNR Grant)	-\$1,390,000	2023
HVP-Phase 4 5% Construction Contingency, Site Amenities, Construction Administration (estimated)	-\$179,500	2023
Seidles Lake Park Trail Connection (South St. Paul / DNR Grant)	-\$175,000	2023/2024
DEED Reimbursement (Vista Pines)	\$415,000	2022/2023
Total	\$1,027,433	

RECOMMENDATION

Staff recommends approval of the attached Resolution, funding the Seidls Lake Park Trail extension project for an amount up to \$175,000 from the City's Park Acquisition and Development Fund (Fund 402).

At its August 10, 2022 meeting, the Park and Recreation Advisory Commission voted unanimously to recommend to Council that they approve the funding for the project.

ATTACHMENTS

1. Resolution Approving Funding for Seidls Lake Trail Extension Project
2. Map of Proposed Seidls Lake Trail Project
3. Design Summary Memo from Consultant WSB
4. Final Seidls Lake Park Master Plan
5. 2022 DNR Grant Application

**DAKOTA COUNTY
CITY INVER GROVE HEIGHTS
DAKOTA COUNTY, MINNESOTA**

RESOLUTION NO. _____

**RESOLUTION APPROVING \$175,000 IN FUNDING FOR SEIDLS LAKE TRAIL
EXTENSION AT SEIDLES LAKE PARK.**

WHEREAS, in 2007, the City of Inver Grove Heights worked with Brauer & Associates to develop Seidls Lake Park Master Plan; and

WHEREAS, in 2018, the Council approved \$100,000 to replace the playground equipment at Seidles Lake Park; and

WHEREAS, in 2019, the Council approved the construction of a timber staircase Seidls Lake Park, and the purchase of property located adjacent to Seidls Lake Park. The cost of the timber staircase was \$25,000 and the purchase price was \$10,000 and both were funded by the Park Acquisition and Development Fund; and

WHEREAS, South St. Paul applied for and was awarded a \$250,000 DNR Grant for trail extension and reconstruction project for Seidles Lake that borders both South St. Paul and Inver Grove Height. Where the project has an estimated cost of \$440,000 and, minus the \$250,000 DNR grant funds, both cities would be responsible for a 50/50 split cost share of the remaining \$190,000 balance. However, given anticipated inflation and potential trail rerouting to meet ADA design criteria, \$175,000 is a more reliable cost estimate;

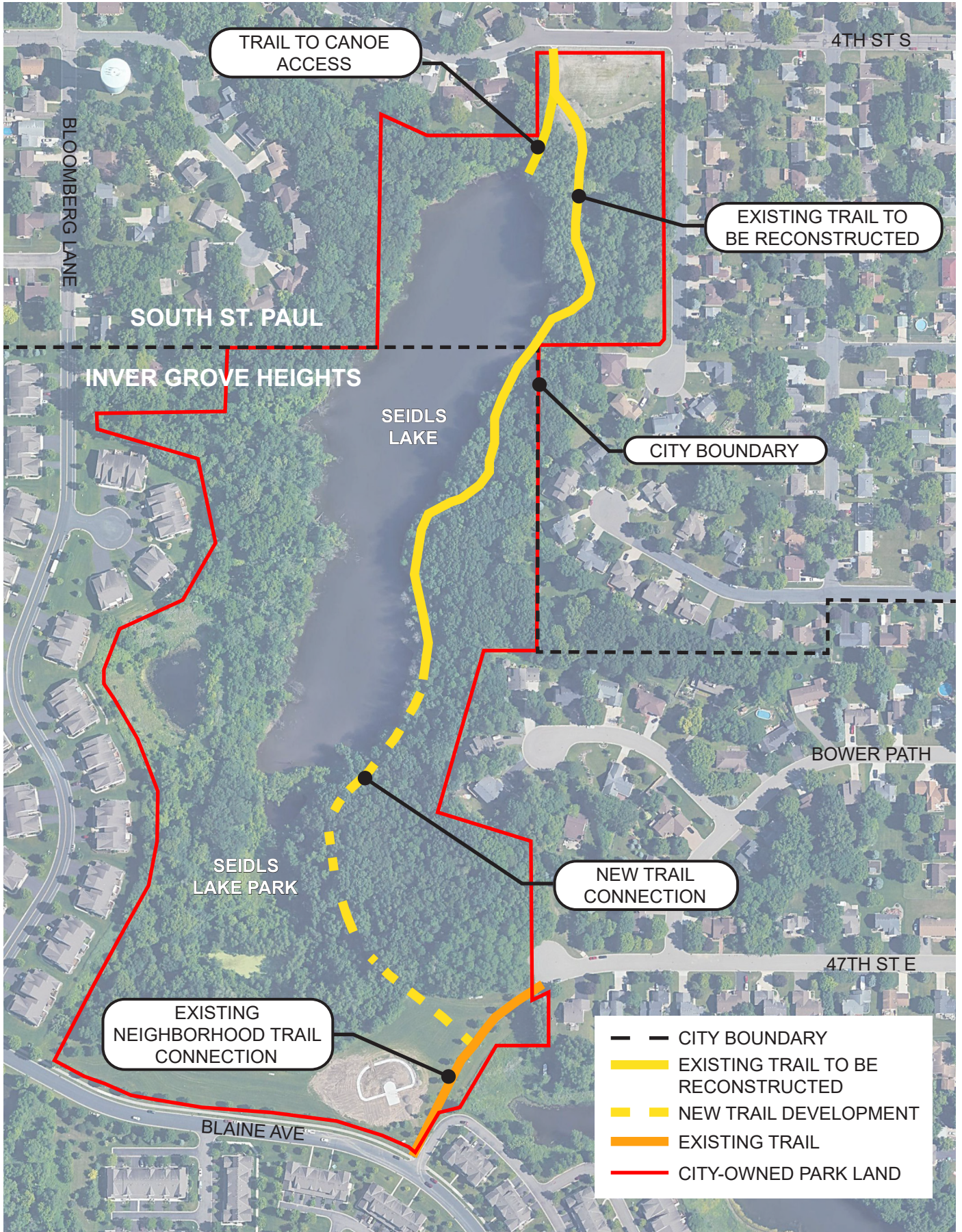
NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF INVER GROVE HEIGHTS, MINNESOTA, approve funding for Seidls Lake Park trail extension project for \$175,000 with the City of South St. Paul utilizing the City's Park Acquisition and Development Fund (Fund 402)

Adopted this 22nd day of August 2022 by the City Council of Inver Grove Heights, MN

Tom Bartholomew, Mayor

ATTEST:

Rebecca Kiernan, City Clerk



Project Site Level Map

South St. Paul & Inver Grove Heights, Minnesota
February 2022

Memorandum

To: Sue Polka, PE, City of South St. Paul
Tom Kaldunski, PE, City of Inver Grove Heights
Joe Barten, Dakota County SWCD

From: Jake Newhall, PE
Luke Lunde

Date: July 9, 2021

Re: Seidls Lake Shoreline Restoration Conceptual Design Memo
WSB Project No. 018376-000

WSB was hired to complete a shoreline restoration study for Seidls Lake. The purpose of this design memo is to provide a current assessment of the existing conditions and recommendations for consideration related to tree removal, shoreland and slope restoration techniques, native vegetation establishment, and tree/shrub plantings.

Restoration of the Seidls Lake area is a continued priority for South St. Paul and Inver Grove Heights as they desire it to be the centerpiece of a regional trail system and an amenity for the public to enjoy.

EXISTING CONDITIONS

Seidls Lake is a DNR public water that receives significant surface water runoff from the adjacent landscape and multiple stormwater outfalls. The fluctuation in lake water levels has adversely affected the existing condition and vegetation of the lake shore. This problem has been a priority issue for the Lower Mississippi River Watershed Management Organization and cities of South St. Paul and Inver Grove Heights for many years. Recent field visits documented the most current condition that includes significantly eroded shorelines, lack of healthy vegetation, and high numbers of deadfall within the lake and along the shorelines.

The trail along the east side of Seidls is in very poor condition and needs to be reconstructed. In many locations the trail is washed away or badly deteriorated. In addition, there is a desire to construct an additional access point and extend the trail to the south providing a connection to an existing trail in Inver Grove Heights to the trail on the east side of Seidls Lake.

STORMWATER IMPROVEMENTS

South St. Paul and Inver Grove Heights recently received funding from the State Legislature to help construct a lift station to result in more consistent water levels (there is no outlet currently so the basin water levels are subject to high levels of fluctuation). The proposed pump station will provide normal lake level elevations between approximately 805 and 807. The pump station will also help minimize the duration of bounce after large rainfall events which will improve the current dynamic state of water levels in the lake system and provide potential for restoration of eroded lake shoreline and lakeshore habitat for wildlife, fish species, and passive recreation.

PROPOSED LOCATIONS AND RESTORATION

Results of the onsite review identify the north, south, and east lake shoreline will require moderate to substantial improvements which range from vegetative removal to shoreline stabilization. The west shoreline is considerably more stable resulting in limited improvements that include removal of existing deadfall and tree/shrub removal along the riparian lakeshore. See the Seidls Lake Restoration Study figure attached to this memo for proposed locations of restoration.

RESTORATION FEATURES

Proposed shoreland stabilization and habitat features for this project are current techniques utilized by the Minnesota DNR which include toe rock benches, toe wood structures, root wads, and native plant species plantings. See existing/proposed conditions photos included with this memo.

Details have been included that depict example construction details for the rock benches, toe rock, and toe wood/root wads that would be similar to the shoreline restoration techniques proposed.

COMMITMENT TO WATER QUALITY

The Cities of South St. Paul and Inver Grove Heights are extremely committed to water quality in Seidls Lake. Stormwater quality BMPs have been constructed by both cities upstream of Seidls Lake in the recent past to remove pollutants and improve the quality of stormwater runoff discharged to the lake. Future opportunities may exist to target additional water quality, but at this time the priority is the in-lake and shoreline improvements to improve habitat and restore the degraded shoreline from years of erosion and water level fluctuation.

COST ESTIMATE

Anticipated costs for the shoreline restoration and trail have been broken down as follows:

Shoreline Restoration Component

Vegetation/restoration, contingencies, and indirect costs: \$375k

Conservation partners legacy grant funding is up to \$400k but we estimate project cost of \$375k and we would request \$300k with a match of \$75k, exceeding the required 10%.

Vegetation funding needed from SSP and IGH = \$75k.

Trail Component

Trail construction, contingencies, and indirect costs: \$440k.

DNR Trail grant funding is \$150k with a minimum 25% match.

Trail funding needed from SSP and IGH = \$290k

Total

Total project funding need from SSP and IGH = \$365k to fund the \$815k project

POTENTIAL GRANT FUNDING SOURCES

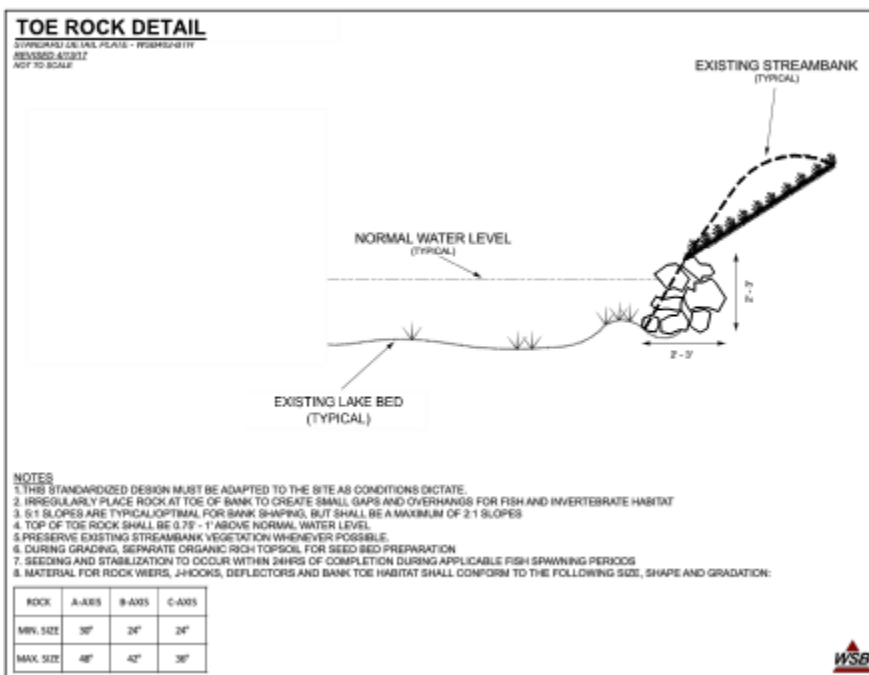
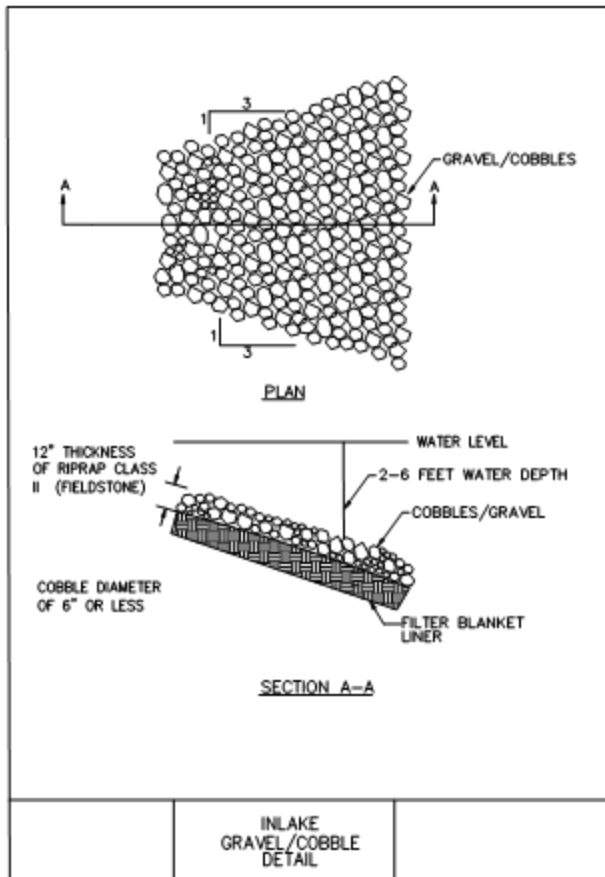
Several grant opportunities are available for the proposed shoreline restoration project. The project may include multiple sources of grant funding. These include the following:

Grant Opportunities

Conservation Partners Legacy Grant (CPL)
Department of Natural Resources Trail Funding
Environmental and Natural Trust Fund Grant (LCCMR)
Clean Water Land and Legacy Grant Fund (LSOHC)

Grant Submittal

September 2021
March 2022
April 2022
May 2022

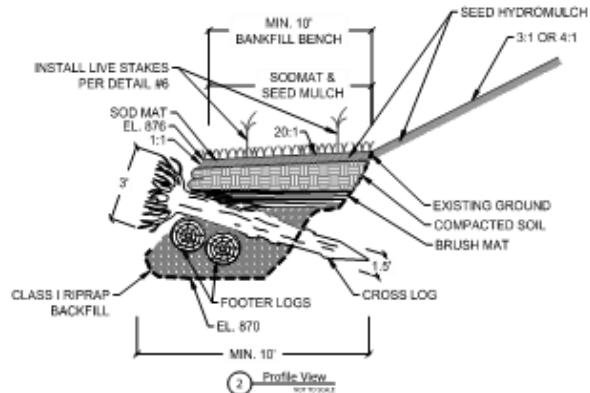
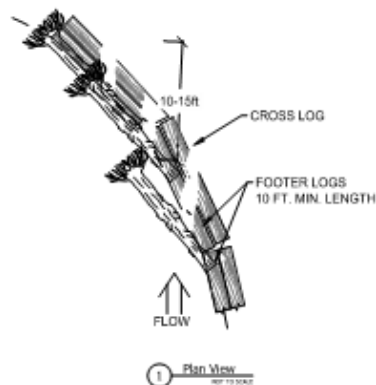


TOE WOOD CONSTRUCTION NOTES

1. FOOTER LOGS AND CROSS LOGS SHALL BE HARDWOOD SPECIES AND FREE FROM DECAY OR ROT.
2. FOOTER LOGS AND CROSS LOGS SHALL BE A MINIMUM OF 10 INCHES IN DIAMETER.
3. CROSS LOGS SHALL HAVE ROOT BALLS INTACT AND HAVE A MINIMUM DIAMETER OF 3 FEET. ALL CROSS LOGS SHALL HAVE A SHARPENED END AND BE DRIVEN INTO THE BANK. IF CROSS LOG IS LONGER THAN 15 FEET, IT SHALL BE ANGLED INTO FLOW. IF CROSS LOG IS 10-15 FEET, IT SHALL BE PERPENDICULAR TO FLOW.
4. CLASS 1 RIPRAP SHALL BE USED AS BEDDING AND BACKFILL OVER TOP OF THE CROSS LOG. BEDDING SHALL EXTEND A MINIMUM OF 4 FEET SHOREWARD FROM THE BACK OF THE FOOTER LOGS AND BACKFILL SHALL EXTEND A MINIMUM OF 7 FEET SHOREWARD FROM THE ROOT BALL. BEDDING AND BACKFILL SHALL BE A MINIMUM OF 1 FOOT THICK.
5. BRUSH MATTRESS MATERIAL SHALL CONSIST OF SMALL LOGS, LIMBS, AND TREE TOPS LESS THAN 6 INCHES IN DIAMETER. BRUSH MATTRESS MATERIAL SHALL BE WORKED INTO THE ROOT BALL.
6. BACKFILL MATERIAL SHALL CONSIST OF COMPACTED SOIL GENERATED FROM ON-SITE EXCAVATION WITH A MINIMUM THICKNESS OF 2 FEET.
7. THE EXPOSED FRONT FACE OF THE BACKFILL MATERIAL SHALL BE RESTRAINED AND PROTECTED BY WRAPPING AND STAKING WITH GEOCOIR/DEKOWE 700 OR APPROVED EQUAL. BLANKET SHALL BE STAKED WITH 24" DEAD STOUT STAKES.
8. THE TOP LAYER OF THE TOE WOOD STRUCTURE SHALL BE SOD MAT GENERATED FROM ON-SITE EXCAVATION AREAS AND STOCKPILED UNTIL INSTALLED. SOD MAT SHALL BE A MINIMUM OF 6 INCHES THICK.

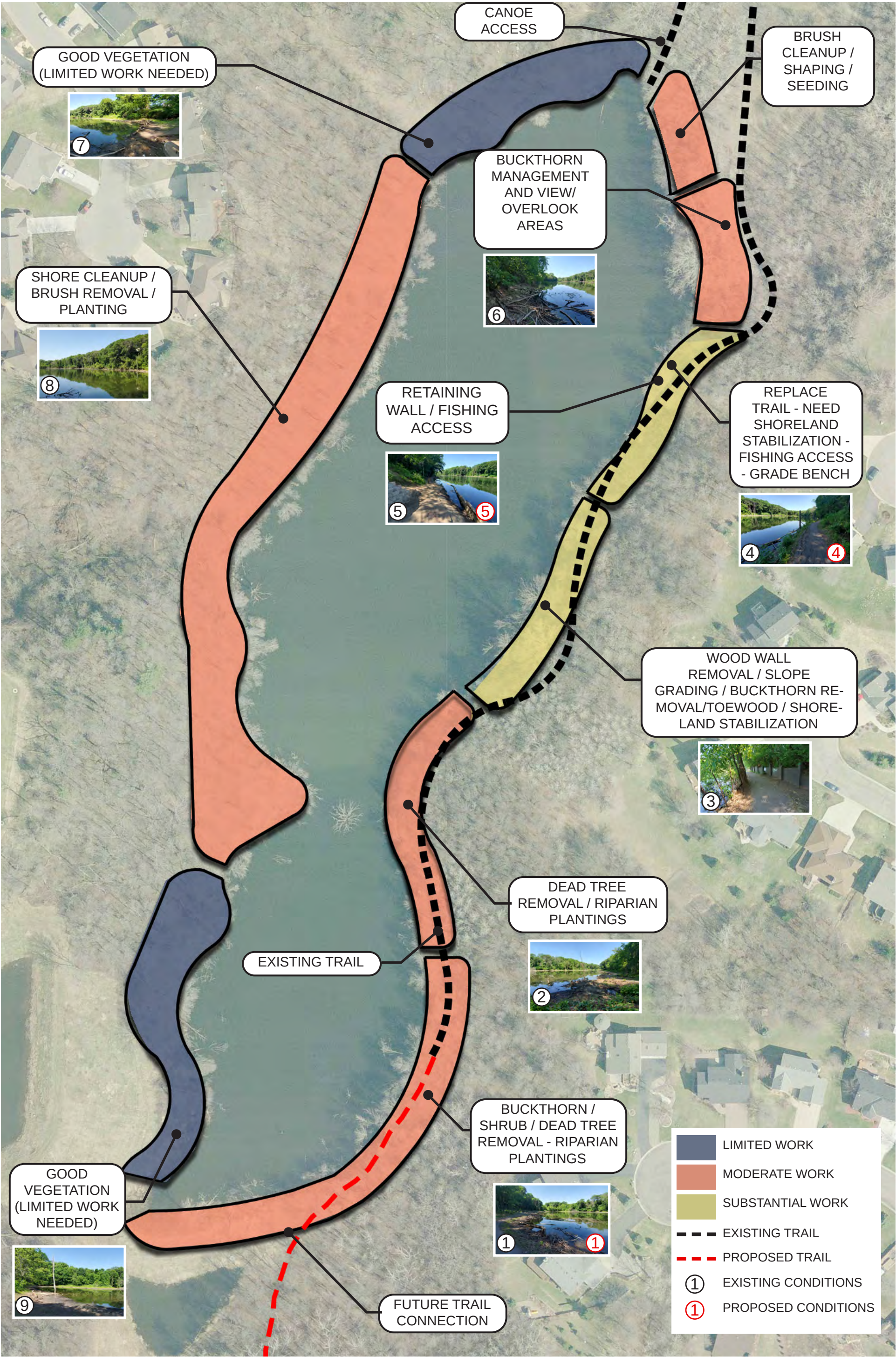
NOTES:

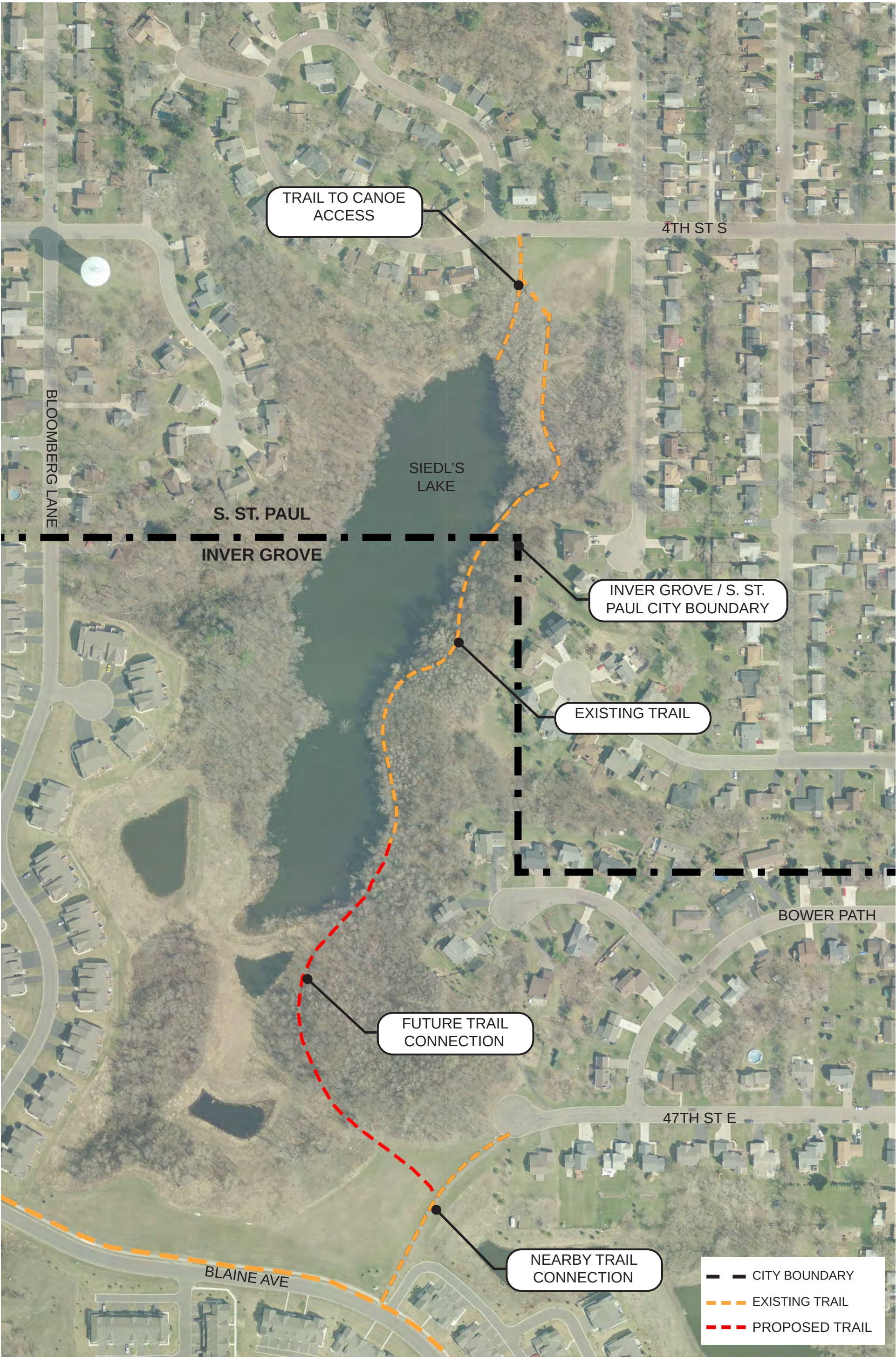
A MINIMUM OF TWO CROSS LOGS PER FOOTER LOG IS REQUIRED TO ANCHOR FOOTER LOG.



TOEWOOD DETAIL

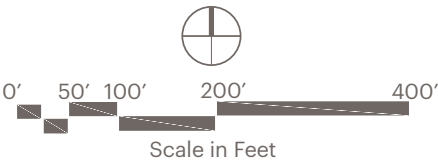
SCALE: NOT TO SCALE





Trail Map

South St. Paul & Inver Grove Heights, Minnesota
July 9, 2021 | WSB Project number: 018376-000





1

UPLAND BUCKTHORN / SHRUB / DEAD FALL REMOVAL, SHORELAND GRADING, HABITAT
FEATURE INSTALL & RIPARIAN PLANTINGS



1

BUCKTHORN / SHRUB / DEAD TREE REMOVAL - RIPARIAN PLANTINGS

Existing / Proposed Conditions Photos

South St. Paul & Inver Grove Heights, Minnesota
July 9, 2021 | WSB Project number: 018376-000



2

DEAD FALL REMOVAL, SHORELAND GRADING, RIPARIAN PLANTINGS



3

WOOD WALL REMOVAL / SLOPE GRADING / BUCKTHORN REMOVAL/TOEWOOD / SHORELAND STABILIZATION

Existing / Proposed Conditions Photos

South St. Paul & Inver Grove Heights, Minnesota
 July 9, 2021 | WSB Project number: 018376-000



4

REPLACE TRAIL - NEED SHORELAND STABILIZATION - FISHING ACCESS - GRADE TOEROCK BENCH WITH ROOTWADS (FISH HABITAT)



4

REPLACE TRAIL - NEED SHORELAND STABILIZATION - FISHING ACCESS - GRADE BENCH

Existing / Proposed Conditions Photos

South St. Paul & Inver Grove Heights, Minnesota
 July 9, 2021 | WSB Project number: 018376-000



5

RETAINING WALL / FISHING ACCESS



5

RETAINING WALL / FISHING ACCESS

Existing / Proposed Conditions Photos

South St. Paul & Inver Grove Heights, Minnesota
 July 9, 2021 | WSB Project number: 018376-000



6

BUCKTHORN MANAGEMENT, DEAD FALL REMOVAL & SCENIC OVERLOOK FROM UPPER TRAIL



7

GOOD VEGETATION (LIMITED WORK NEEDED) - DEAD FALL REMOVAL

Existing / Proposed Conditions Photos

South St. Paul & Inver Grove Heights, Minnesota
 July 9, 2021 | WSB Project number: 018376-000



8

SHORE CLEANUP / BRUSH REMOVAL / NATIVE RIPARIAN SHORELINE PLANTINGS



9

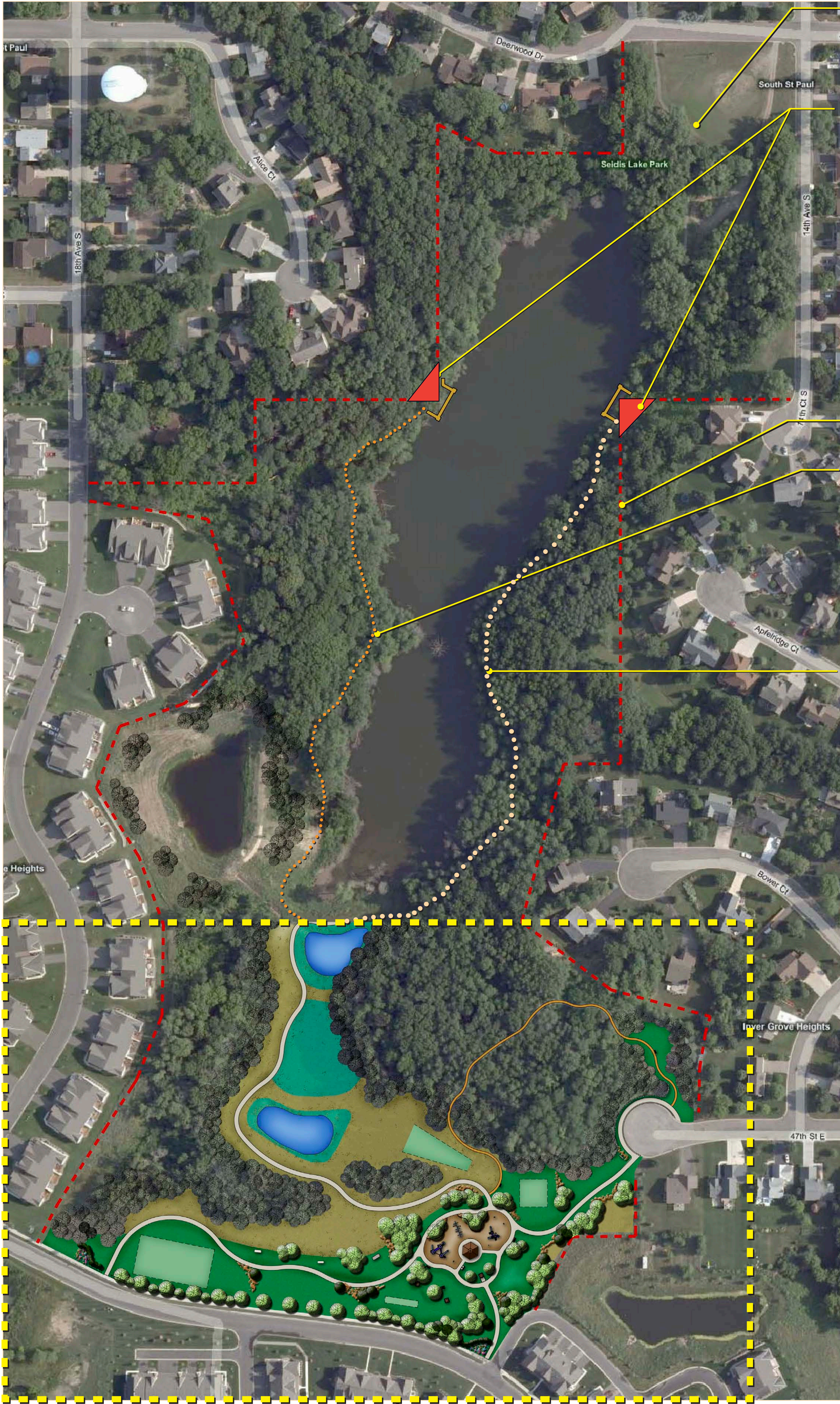
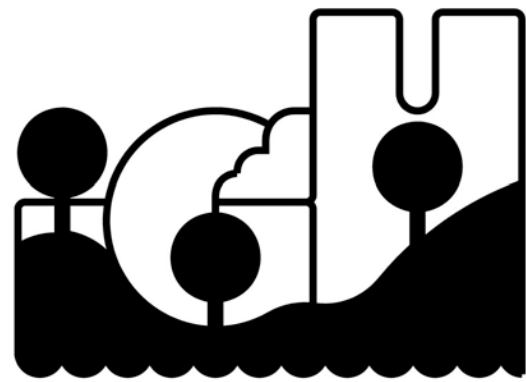
GOOD VEGETATION (LIMITED WORK NEEDED), DEAD FALL REMOVAL

Existing / Proposed Conditions Photos

South St. Paul & Inver Grove Heights, Minnesota
July 9, 2021 | WSB Project number: 018376-000

Seidl's Lake Park

Overall Preliminary Master Plan



South St. Paul Site
Trails should tie into the South St. Paul's portion of Seidls Lake Park.

Property Crossing Options
Crossing the two sections of lakeshore to join the Inver Grove Heights site to the South St. Paul site should be pursued.

One option consists of using boardwalks with overlooks across the water in order to bypass the private property.

The other option consists of the city obtaining trail easements from the private property owners to build the trail on solid ground.

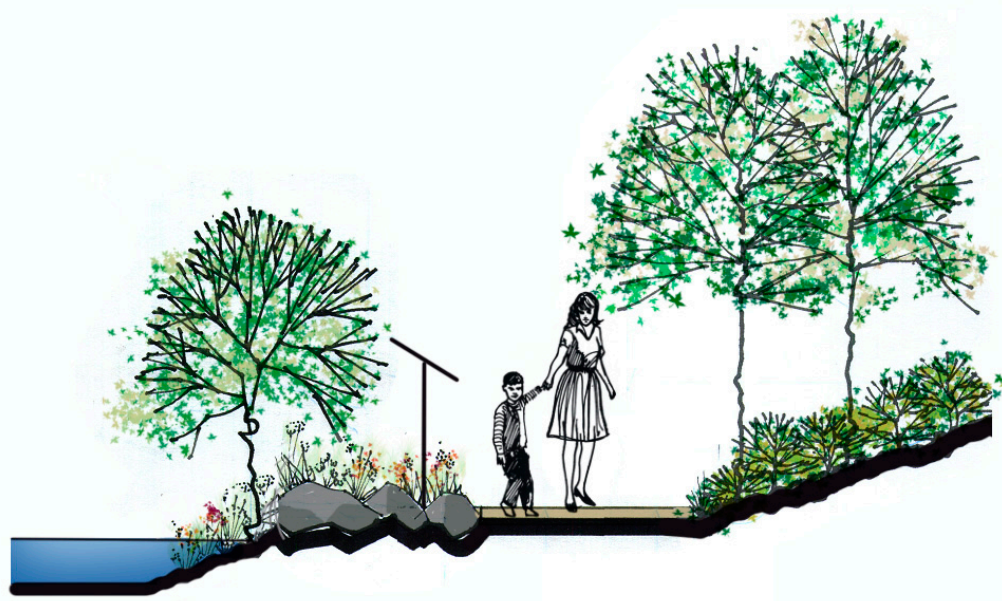
Park Property Lines (typ)

Future Trail Alternate
A future trail to complete a loop around the lake could be implemented, if desired, and would tie into the South St. Paul park site. The trail should be minimal in width, possibly built of a nature trail material (bare soil, wood chips, etc.) and should minimize disturbance to the site.

Lakeside Trail
Future lakeside trail should be a minimum of 6' wide, with an ideal width of 8' and should tie into the South St. Paul trail system.

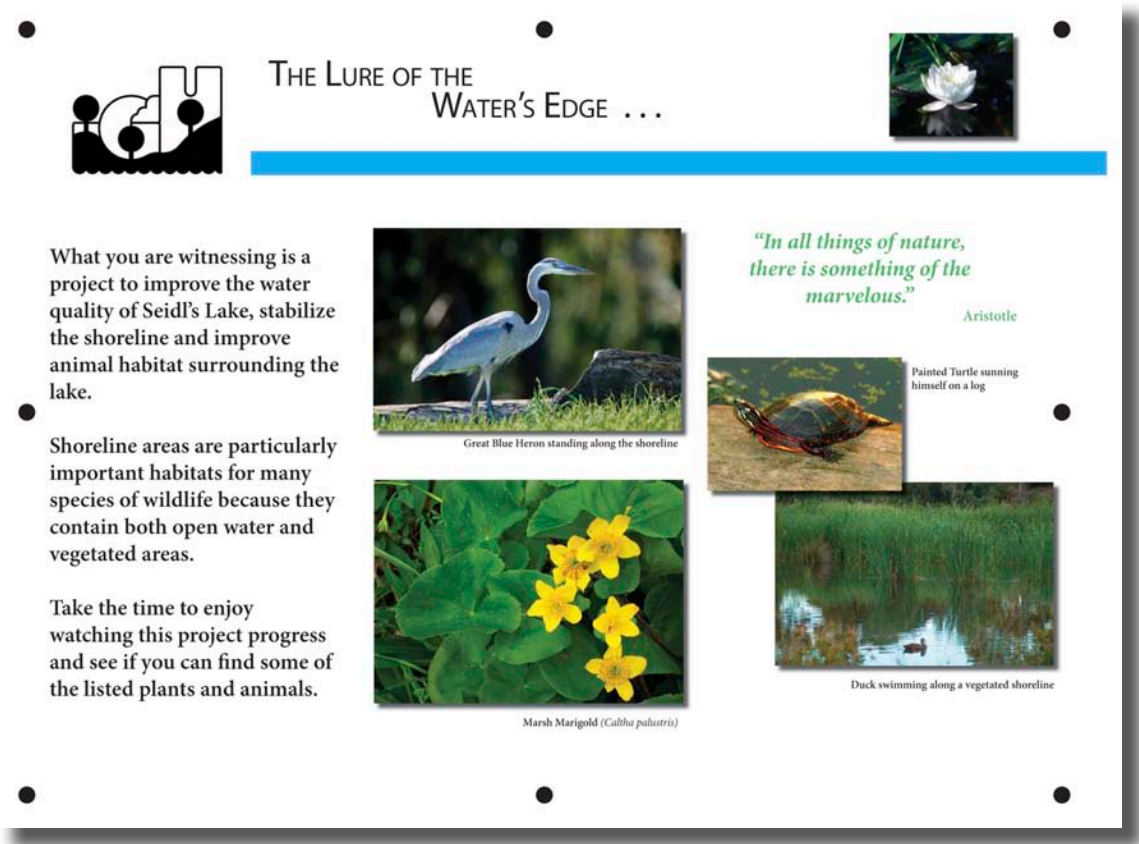
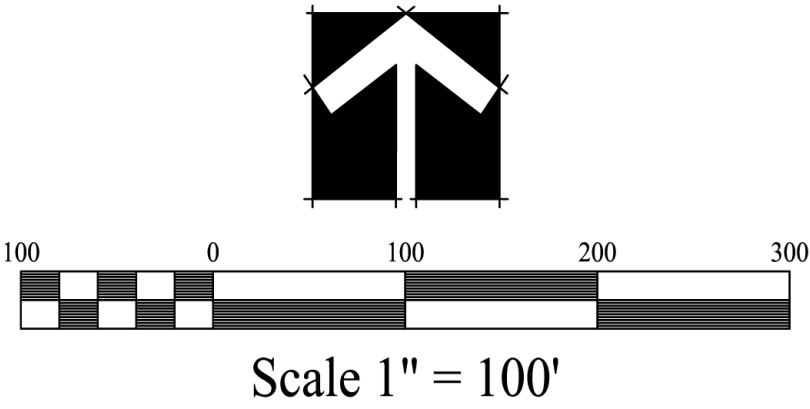
The trail should be built above the future high water level, where feasible, once this is established and control structures are in place. In areas where it is not feasible, use of suitable construction materials shall be used to reduce the propensity for water damage.

Where the trail is adjacent to steep slopes, the edge of the trail shall have retaining walls built of suitable materials that would blend with the natural character of the site, such as limestone blocks, natural boulders, etc.



Interpretive / Educational Information
Placement of interpretive / educational signs along the various park trails would provide the users information about their surroundings and encourage stewardship for the park.

REFER TO ENLARGEMENT
PLAN FOR INFORMATION
WITHIN THIS AREA





LOCAL TRAIL CONNECTIONS PROGRAM

2022 Grant Application

Project #

1) GENERAL CONTACT INFORMATION:

Grant Applicant (Unit of Government Required):	City of South St. Paul
Contact Person:	Sue Polka, PE
Contact Title:	City Engineer
Mailing Address:	125 3rd Avenue N 2nd Floor South St. Paul, MN 55075
Phone:	651-554-3214
Email address:	spolka@southstpaul.org
<i>If the project has a trail club, organization, or project partner, please include below:</i>	
Organization/Club Name:	NA
Contact Person:	
Contact Title:	
Mailing Address:	
Phone:	
Email address:	

2) GENERAL PROJECT INFORMATION:

Project Name:	Seidls Lake Trail Reconstruction and Extension Project
Project Summary (30 words or less):	Reconstruction of 1,680 feet of existing paved trail within Seidls Lake Park and construction of a 920-foot trail extension.
Project Completion Date:	September 2023 (final restoration spring 2024)
Trail Name:	Seidls Lake Trail
Website with Trail Info:	https://www.southstpaul.org/408/Seidls-Lake https://www.ighmn.gov/296/Seidls-Lake

3) FINANCIAL INFORMATION:

Grant Request:	\$250,000	Source of Cash Match (describe below in the box next to \$ amount):	Are these match funds secured? (Check below):	
			YES	NO
Non-State Cash Matching Funds (25% cash match required):	\$75,000	City of South St. Paul CIP (2022)	X	
	\$115,000	City of Inver Grove Heights and South St. Paul CIP (2023/2024)	X	
Total Project Cost:	\$440,000	(Grant Request + Matching Funds must = Total Project Cost)		
If this project has received federal funding through the Enhancements Program or MnDOT's Transportation Alternatives Program, please indicate which year			FFY:	NA

Revised 11/2021

the project is programmed for construction?		
---	--	--

4) PROJECT LOCATION:

County Project is Located:	Dakota
State Legislative (House) District:	52B
State Senate District:	52
State House Representative (name):	Ruth Richardson
State Senator (name):	Matt Klein
Congressional District:	2

5) MEASURABLE TARGETS/OUTCOMES:

It is required that measurable targets and outcomes be collected for your project. Complete the boxes below on the right with exactly how many miles of trail that will be acquired, newly developed or existing trail miles improved, along with the number of trailhead facilities, bridges, and/or culverts that will be developed or restored as part of just this project, not the whole trail. After the project is complete the measurable outcome will be compared with the target included.	
Trail Miles to be Acquired:	0
New Trail Miles to be Developed/Created:	0.17 miles
Existing Trail Miles to be Restored or Improved:	0.32 miles
Number of Trailhead Facilities to be Developed or Restored:	0
Number of Trail Bridges/Culverts to be Developed or Restored:	0

6) RECREATIONAL USES FOR PROJECT:

6A) Indicate the existing or proposed uses of the trail under primary use and the secondary recreation uses which will directly benefit from the proposed project:		
Primary Use	Secondary Use	
X		Walking/Hiking
X		Bicycling
		Mountain Bicycling
		Horseback Riding
		Cross-Country Skiing
X		In-Line Skating
		Snowmobiling
		ATV Riding
		Off-Highway Motorcycling
		Off-Road Vehicles (4x4, Jeep, etc.)
		Other (specify):
6B) Describe/Justify how <u>each</u> of the above identified primary and/or secondary trail user groups will benefit from the project. Response required for each identified use above.		
Usage of the reconstructed and proposed trail segments will be restricted to nonmotorized users typical of paved multiuse trails. The current and proposed primary uses of Seidls Lake Trail include walking/hiking, bicycling, and in-line skating. Seidls Lake Park is classified as a Nature Park by the City of South St. Paul. Nature parks are predominately tracts of undeveloped land that consist of natural drainage areas, wetlands, steep slopes, and forested corridors. The park is a popular destination for fishing, hiking, and wildlife viewing, and draws park users from the surrounding residential neighborhoods who are walking/hiking, bicycling, or in-line skating to		

take advantage of these amenities. The existing trail is also used to access the canoe launch at the north end of the lake. These groups will benefit from improved access to park amenities and a new nonmotorized connection through the park between South St. Paul and Inver Grove Heights.

6C) Will this project provide year-round trail use? If it is planned to provide year-round use, outline which users indicated above will benefit and how the facility will be maintained for those uses.

The Seidls Lake Trail is and will continue to be available for year-round use. Snow and ice will be cleared from trails in accordance with the City of South St. Paul's and City of Inver Grove Heights' existing winter trail maintenance policies. Both cities currently plow snow from trails following snow events. The user group most likely to benefit from opportunities for year-round use are people walking or hiking, however the trail may also be used by bicyclists during the winter months to access park amenities or to take advantage of the new trail connection between the two cities. The trail is unlikely to be used for in-line skating on a year-round basis.

7) PROJECT DESCRIPTION:

Provide a description sufficient enough to understand the project. Indicate prominently whether this is primarily a new trail or facility development request, an enhancement to an existing trail or facility, or an acquisition. Make sure to include the design specifics of the project, such as the trail width (**paved multi-use bicycle/pedestrian trails must be at least 10 feet wide**). Include how this project will be immediately available for use by the general public. If this project is a phase of a larger project, very briefly describe how it fits into the larger plan, however, focus specifically on how the grant funds will be used for this project. Also, briefly explain why it is important for this project to be funded. Use the box below.

The proposed project includes a combination of trail reconstruction/restoration and new trail construction within Seidls Lake Park in the Cities of South St. Paul and Inver Grove Heights. Project elements include the reconstruction of 1,680 feet of paved trail and construction of a 920-foot trail extension from the existing trail along the east side of Seidls Lake to the existing trail between Blaine Ave and 47th St E in the City of Inver Grove Heights. Reconstructed and new trail segments will be constructed with a bituminous surface at a width of 10 feet.

Seidls Lake Park is a unique cooperative effort between the City of South St. Paul and the City of Inver Grove Heights. The proposed project is one component of a larger park restoration effort. Seidls Lake is a DNR public water that receives significant surface water runoff from the adjacent landscape and multiple stormwater outfalls. The fluctuation in lake water levels has adversely affected the existing condition and vegetation of the lake shore. This problem has been a priority issue for the Lower Mississippi River Watershed Management Organization and cities of South St. Paul and Inver Grove Heights for many years. Recent field visits documented the most current condition that includes significantly eroded shorelines, lack of healthy vegetation, and high numbers of deadfall within the lake and along the shorelines.

The trail along the east side of Seidls Lake is in very poor condition and needs to be reconstructed. In many locations the trail is washed away from erosion or badly deteriorated. In addition, there is a desire to construct an additional access point and extend the trail to the south providing a connection to an existing trail in Inver Grove Heights to the trail on the east side of Seidls Lake.

South St. Paul and Inver Grove Heights recently received funding from the State Legislature to help construct a lift station which will help manage water levels and reduce flooding. The lift

station will also help minimize the duration of bounce after large rainfall events which will improve the current dynamic state of water levels in the lake system and provide potential for restoration of eroded lake shoreline and lakeshore habitat for wildlife, fish species, and passive recreation. Additional Conservation Partners Legacy (CPL) Grant funds have also been secured to complete shoreline restoration activities within the park. Securing funds to reconstruct and extend the existing trail will fill a gap in funding to achieve the local vision for Seidls Lake Park. The interrelated elements of the trail and shoreline restoration projects necessitate a coordinated effort for design and construction to achieve the most efficient and beneficial outcome. The completed trail will be immediately available for use by the general public following construction.

8) PROJECT COST BREAKDOWN:

Identify each recreational trail/facility being proposed for funding. Provide a short quantitative description of the facility (linear feet, dimension of structures, number of components, etc.), the total estimated cost and the expected completion date for each for just this grant request. Include materials, landscaping, design/engineering services, contract service, etc. Add or delete rows in the text boxes below as appropriate. For acquisition projects, fill out the acquisition table below.

Trail/Facility	Description	Estimated Cost	Expected Completion Date
Reconstructed Trail	1680 feet of 10' trail including removals, grading, base, and pavement	190,000	September 2023
New Trail Extension	920 feet of 10' trail including tree clearing, grading, base, and pavement	150,000	September 2023
Erosion Control	Erosion control measures consistent with permit requirements	20,000	October 2023
Restoration	Grass, native vegetation, trees, shrubs	30,000	May 2024
Contract Services	Engineering, permitting, bidding, and construction management	50,000	May 2023
Total		\$440,000	

ACQUISITION (if applicable): NA			
Description of Parcel	Acres or Miles of Trail	Reasonable Market Value Estimate	Expected Acquisition Date
Total		\$	

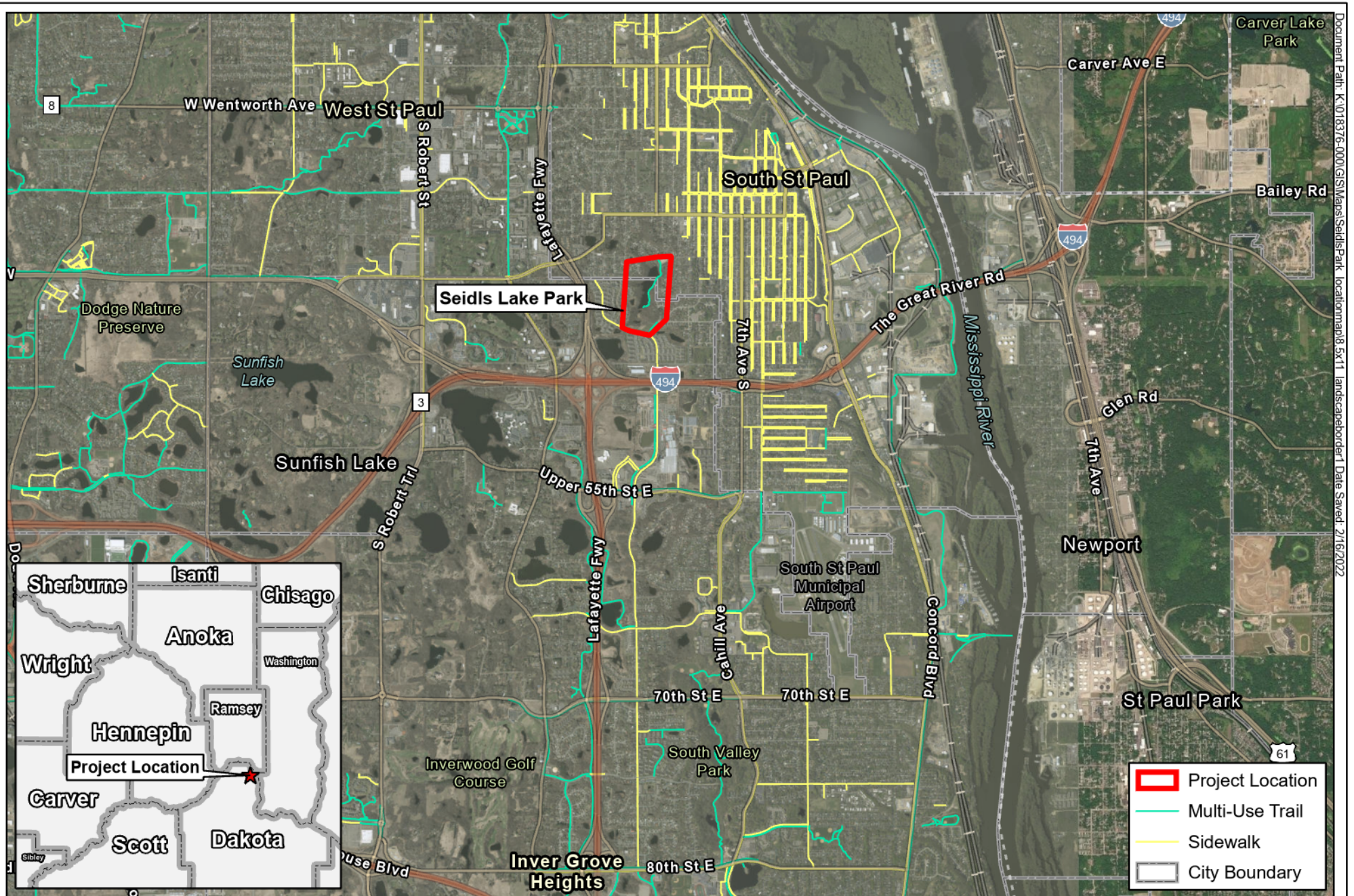
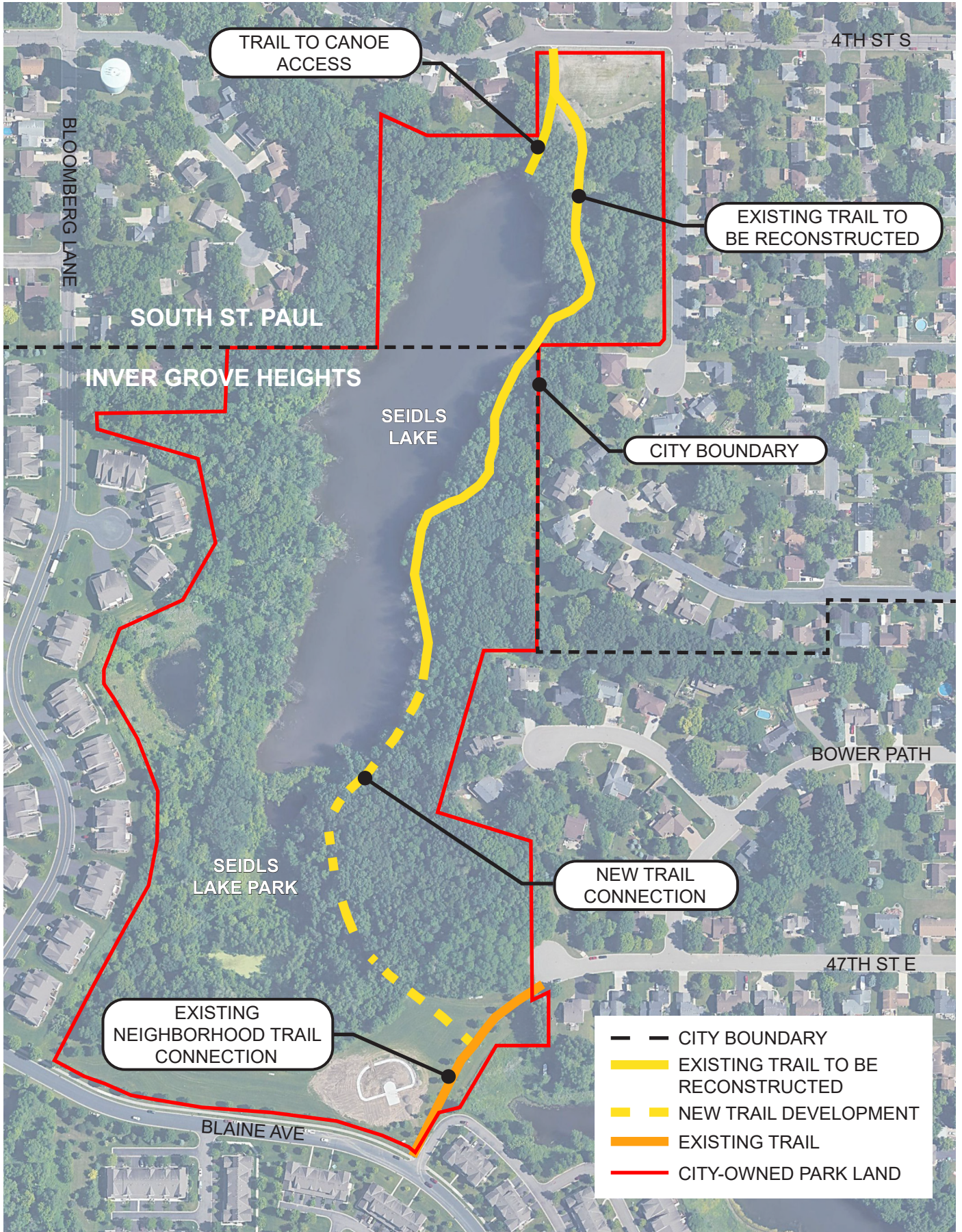


Figure 1 - Project Location
 Seidls Lake Trail
 South St. Paul/Inver Grove Heights



0 5,000 Feet





Project Site Level Map

South St. Paul & Inver Grove Heights, Minnesota
February 2022

11) SITE AND PROJECT QUALITY:

What considerations have been given to the needs of the intended trail user groups and are they appropriate for the location? What attractive features exist on site or within view of the proposed project that may bring in potential user groups to this project location? Does the proposed project develop infrastructure and amenities that meet the needs and interests of future generations and diverse communities? Is the proposed project located in a densely settled area or area of rapid population growth? What other facilities (if any) are on site or within the trail corridor that enhances this project? Describe what attractive features exist on the site or within view. Use the box below.

Straddling the border of two cities, Seidls Lake Park is a cooperative effort between the Cities of South St. Paul and Inver Grove Heights. The park is a regional amenity in a highly urbanized area with few other nearby natural areas. The location of the park within an urbanized area surrounding by residential neighborhoods makes it an ideal location for multiuse trail development. It is relatively undeveloped and allows visitors to enjoy a leisurely walk to view wildlife through the trees on the trail along the eastern side of Seidls Lake. The lake is also a popular local fishing destination, and the southern end of the park includes a playground that serves the surrounding neighborhood. The existing trail connects to scenic overlook areas and fishing access points that will be improved as part of the recently funded shoreline restoration project. The City of South St. Paul's 2040 Comprehensive Plan listed development of trails and other amenities in Seidls Lake Park in its list of issues and opportunities identified during the planning process. The plan also noted the challenges associated with trail development in the park, including a need for improved stormwater infrastructure. The Comprehensive Plan includes collaborating with the City of Inver Grove Heights to develop a loop trail around Seidls Lake as Policy 9.1.6. With the new lift station recently completed, the time is right to advance trail development.

12) PROJECT READINESS:

What is the current status of the project? Can the project begin immediately? What major activities must still be accomplished before the project can begin? Will the project be completed within the appropriation timelines? At a minimum, please reference land acquisition requirements, status of engineering/design, and relevant permits and approvals that have/have not been obtained for the project. Is there urgency to move ahead with this project now, and what consequences are looming if it is not funded? Use the box below.

The project will take place entirely on land already owned by the Cities of South St. Paul and Inver Grove Heights. No additional land acquisition will be required.

The Seidls Lake Lift Station & 4th St S Reconstruction project, a collaborative effort between the Cities of South St. Paul, West St. Paul, and Inver Grove Heights that received \$781,000 in state bonding dollars from the Minnesota Legislature, included the construction of a stormwater lift station at Seidls Lake in Fall 2021. This facility is anticipated to be operational in spring 2022, which will create the conditions necessary in terms of water levels to proceed with shoreline restoration activities and trail construction/reconstruction.

There is some urgency in securing funding for the proposed trail project due to the importance of coordinating the design and construction of the shoreline restoration component of the project in conjunction with the trail reconstruction project. The two cities have already received \$382,000 in CPL funding and are prepared to proceed with these activities; however the interrelated elements of the trail and shoreline restoration projects necessitate a coordinated effort for design

and construction to achieve the most efficient and beneficial outcome. The CPL funds will not be used as matching funds for trail development activities described in this application.

Preliminary concepts have been developed for the trail component of the larger restoration project, however detailed designs have not yet been completed. A DNR Public Waters Work Permit may be required, as well as coordination to ensure compliance with the Wetland Conservation Act. The two cities have already begun coordination with the DNR as part of Phase 1 of the overall restoration project.

13) ACCESSIBILITY (ADA):

All facilities that are developed, or portions thereof, using these funds must be accessible for persons with disabilities or be eligible for an exemption. The Americans with Disabilities Act (ADA) has developed guidelines for outdoor developed areas, buildings and facilities and is available at www.access-board.gov. Will the project facilitate and/or improve ADA access to existing trails or trail related facilities? Does the proposed project develop and/or redevelop facilities that meet the differing outdoor recreation needs for people of all abilities?

Describe how the trail or facility is designed for use by persons of all abilities and takes into consideration ADA design standards. Do not just state the trail will be ADA compliant. If your project will not be ADA accessible, list the specific exemption permitted in ADA guidelines. Use the box below.

In many locations along the east side of Seidls Lake the existing trail is washed away or badly deteriorated, resulting in reduced accessibility and potentially hazardous conditions for all users, particularly those using wheelchairs or other mobility devices. In addition to addressing these access concerns through full reconstruction of the existing trail, the proposed project will also improve ADA access to the existing playground and future facilities in the southern end of the park by creating a contiguous north-south route through construction of a new trail segment. Both reconstructed and new segments of the trail will be constructed to applicable ADA design standards to the maximum extent feasible and will improve access for users of all abilities.

14) CONNECTIVITY:

14A) Describe how the trail project will connect multiple destinations and/or communities. Use the box below.		
Completion of the proposed trail project will improve access to the restored Seidls Lake Park area, which will provide opportunities for walking and biking, fishing, wildlife viewing, canoeing, and other recreational activities. The proposed trail extension will also create a valuable nonmotorized connection between residential neighborhoods north of the park in South St. Paul and the existing trail and playground area at the south end of the park in Inver Grove Heights. While Seidls Lake Park provides valuable recreational amenities, it is also a barrier to north-south nonmotorized travel for some users.		
14B) Does the trail project connect directly to an existing state or regional trail? Check all that apply to the right and describe in the box below if applicable.	Connects to Designated and Existing State Trail:	
	Connects to Designated and Existing Regional Trail:	
NA		
14C) Does the trail project connect directly to an existing state park, state recreation area, regional park, high quality natural resource, local recreation area, or local park? Check all that apply to the right and describe in the box below if applicable.	Connects Directly to a State Park or State Recreation Area:	
	Connects Directly to a Regional Park or Regional Recreation Area:	
	Connects Directly to a Local Park or Recreation Area:	X
	Connects Directly to a High-Quality Natural Resource (not included above):	
The proposed trail project will be located entirely within Seidls Lake Park, a 26-acre park administered through a cooperative agreement between the Cities of South St. Paul and Inver Grove Heights. Reconstruction of the existing trail will improve access to the park from South St. Paul, and the new proposed trail segment will improve access from Inver Grove Heights.		
14D) Describe how the trail project contributes to the overall connectivity of the trail system in the area. Specifically, how well does the project connect existing trail networks or fill critical gaps within the trail system? How well does the project help promote connectivity among trail networks statewide? Use the box below.		
Implementing the proposed project would link the existing trails within Seidls Lake Park to the existing sidewalk and trail network in Inver Grove Heights through a connection to the existing trail between Blaine Ave and 47th St E. This trail would in turn link the Seidls Lake Trail to the wider sidewalk network, improving the ability of residents of the surrounding neighborhood to safely access the park.		
There is currently no convenient direct link between 4th St S in South St. Paul and Blaine Ave in Inver Grove Heights due to the configuration of the surrounding street network. In this respect, the lack of a north-south paved trail through Seidls Lake Park creates a barrier to nonmotorized travel between the two cities. The new proposed trail segment would eliminate this barrier and improve nonmotorized connectivity in the broader area surrounding the park.		
While there are currently no dedicated pedestrian or bicycle facilities that connect directly to Seidls Lake Park in South St. Paul, 4th St S was identified as both a sidewalk gap and a future bicycle boulevard in the South St. Paul Bicycle and Pedestrian Plan. Should these improvements be implemented in the future, the proposed trail will establish a key link between the nonmotorized transportation networks of South St. Paul and Inver Grove Heights.		

15) NATURAL RESOURCE IMPACT:

Describe the potential impact to natural resources by the project and efforts to avoid or mitigate adverse effects. This includes considerations for trail design and construction practices, noise, odors, dust control measures, surface erosion, fish and wildlife populations, damage to wetlands or other ecologically sensitive natural resources, landscaping that includes native planting, and historical/archaeological sites. Also, demonstrate the compatibility of the proposed project with existing adjoining land uses. To the extent possible, all landscaping or plantings that are done in the project area must be native to Minnesota and preferably of the local ecotype, and describe below how this project will comply with this requirement.

The proposed project would be implemented in tandem with the Seidls Lake Shoreline Habitat Restoration project, which recently received Conservation Partners Legacy Grant funds. Linking design and construction activities for these two projects will ensure that the trail maximizes opportunities to avoid or mitigate adverse effects and generates the most benefit for the surrounding habitat. Proposed shoreland stabilization and habitat features for this project are current techniques utilized by the Minnesota DNR which include toe rock benches, toe wood structures, root wads, and native plant species plantings.

Seidls Lake Park is classified as a Nature Park by the City of South St. Paul. Nature parks are predominately tracts of undeveloped land that consist of natural drainage areas, wetlands, steep slopes and forested corridors. The project will have very high visibility and bring visitors to learn about the benefits of the restoration project. Given the high visibility and use of the park and trail, the Lower Mississippi River Watershed Management Organization (LMRWMO) and cities also plan to highlight the restoration with educational signage on the benefits of bioengineering shoreline habitat restoration and native plants for wildlife habitat.

The Cities of South St. Paul and Inver Grove Heights are extremely committed to water quality in Seidls Lake. Stormwater quality BMPs have been constructed by both cities upstream of Seidls Lake in the recent past to remove pollutants and improve the quality of stormwater runoff discharged to the lake. Future opportunities may exist to target additional water quality, but at this time the priority is the in-lake and shoreline improvements to improve habitat and restore the degraded shoreline from years of erosion and water level fluctuation.

ATTACHMENT CHECKLIST

REQUIRED ATTACHMENTS (All attachments MUST be 8 ½ by 11 ONLY)	
X	Attachment A – Required Certifications The first signature block is to be signed by the proper authority for the grant applicant. The specific manager of the facility that is being rehabilitated, enhanced or developed should sign the second section. If the proposed project will utilize public land that is not under the jurisdiction of the grant applicant, the proper authority must sign the final section in order to assure that they are both aware and supportive of the project.
X	Attachment B – Resolution Supporting Application The application must be accompanied by either a copy of a resolution, council minutes or some other official documentation that demonstrates that the local unit of government supports the proposed project and the consequent application. The resolution does not need to have a specific form or specific language, as long as it satisfies what was outlined in the previous sentence. A sample resolution has been included. The sample resolution is a combination type resolution example. It shows support of the grant application (as required above), and if the project is awarded, it includes language to support accepting the grant award, names the fiscal agent, and states that the facility or trail will be maintained for no less than twenty years. This combination resolution helps eliminate the need for an additional resolution for this project in the future, if awarded a grant.
ADDITIONAL ATTACHMENTS (if applicable)	
X	Attachment C – Letters of Support Letters of support are an important factor for reviewers when selecting projects. There should be an effort to solicit letters from specific groups that will derive a direct benefit from the project. The applicant is also welcome to provide letters of support from all other sources as well.
NA	Attachment D – Transportation Funding Award Letter If this project is scheduled to receive Federal Transportation funds, then your local MnDOT district should have notified you in some manner. Please attach this notification and fill in the year in which you are scheduled to receive the funding under question 3.

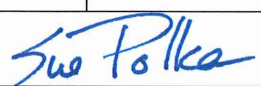
Attachment A – Required Certifications

Attachment A – REQUIRED CERTIFICATIONS

Complete the Required Certifications form below with original signatures (see checklist for instructions)

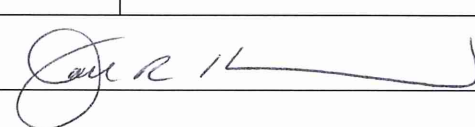
For Grant Applicants:

“I hereby certify that all of the information provided in this application is true and accurate to the best of my knowledge. I recognize that in the event of the proposed project being funded, this document will be used as an addendum to the agreement between the sponsoring unit of government and the state to guide project scope and reimbursement. I also acknowledge that all work must be completed by **June 30, 2024**, and no reimbursement will be sought for an in-house labor services and/or to meet existing payroll. I also preliminarily agree with plans to develop the proposed trail related project on land administered by my agency.”

Name:	Sue Polka, PE	Title:	City Engineer
Unit of Government:	City of South St. Paul		
Signature:		Date:	2/24/2022

For Trail and Park Administrators (if applicable):

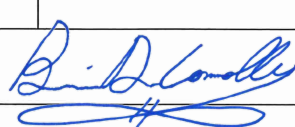
“I substantially agree that the proposed trail related project will be mutually beneficial to the local community, as well as to the goals and purposes for which this recreation unit was established. I will cooperate in its provision if the project proposal should be funded.”

Name:	Joel Hanson	Title:	City Administrator
Unit of Government:	City of South St. Paul		
Signature:		Date:	2/24/2022

For All Administrators of Public Lands Crossed/Utilized in the Proposed Linkage

(Required only if the proposed project will utilize public land that is not under the jurisdiction of the grant applicant):

“I preliminarily agree with plans to develop the proposed trail related project on land administered by my agency, and I will cooperate in seeking more formal authorization in the event the project proposal is authorized for reimbursement.”

Name:	Brian Connolly	Title:	Public Works Director
Unit of Government:	City of Inver Grove Heights		
Signature:		Date:	2/24/2022

Attachment B – Resolution Supporting Application

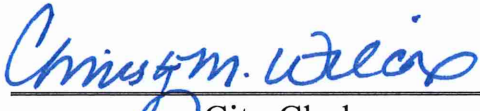
**City of South St. Paul
Dakota County, Minnesota**

CERTIFICATION

The undersigned, City Clerk of the City of South St. Paul, Minnesota (the City), hereby certifies as follows:

Attached hereto is a true and correct copy of Resolution No. 2022-23 duly adopted by the City Council of the City at a lawful meeting duly called on February 22, 2022, at which meeting a quorum was present and acting throughout, which resolution remains in full force and effect in the form which adopted.

WITNESS my hand and the corporate seal of the City this 23rd day of February, 2022.



City Clerk

Seal

City of South St. Paul
Dakota County, Minnesota

RESOLUTION NO. 2022-23

**RESOLUTION FOR APPROVAL OF MINNESOTA DEPARTMENT OF NATURAL
RESOURCES LOCAL TRAIL CONNECTIONS PROGRAM GRANT APPLICATION
SUBMITTAL**

WHEREAS, the City of South St. Paul supports the grant application made to the Minnesota Department of Natural Resources for the Federal Recreational Trail Program. The application is to reconstruct approximately 1,680 feet of paved trail within Seidls Lake Park and construct an additional 920-foot trail extension from the existing trail along Seidls Lake to the existing trail between Blaine Ave and 47th St E in the City of Inver Grove Heights, and

WHEREAS, Seidls Lake Park is a relatively undeveloped natural area that represents a cooperative effort between the City of South St. Paul and the City of Inver Grove Heights, and

WHEREAS, the City of South St. Paul recognizes that it has secured \$75,000 in non-state cash matching funds for this project.

NOW, THEREFORE, BE IT RESOLVED, if the City of South St. Paul is awarded a grant by the Minnesota Department of Natural resources, the City of South St. Paul agrees to accept the grant award, and may enter into an agreement with the State of Minnesota for the above referenced project. The City of South St. Paul will comply with all applicable laws, environmental requirements and regulations as stated in the grant agreement, and

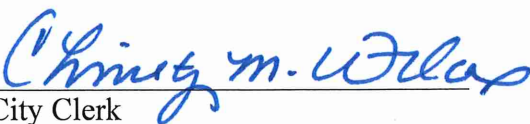
BE IT FURTHER RESOLVED that the applicant has read the Conflict-of-Interest Policy contained in the Local Trail Connections Program Grant Manual and certifies it will report any actual, potential, or organizational conflicts of interest upon discovery to the state related to the application or grant award, and

BE IT FURTHER RESOLVED, the City Council of the City of South St. Paul names the fiscal agent for the City of South St. Paul for this project as:

Clara Hilger
Finance Director
City of South St. Paul
125 3rd Ave. N.
South St. Paul, MN 55075

BE IT FURTHER RESOLVED, the City of South St. Paul hereby assures the Seidls Lake Trail will be maintained for a period of no less than 20 years.

Adopted this 22nd day of February, 2022.


City Clerk

Attachment C – Letters of Support



**PUBLIC WORKS
DEPARTMENT**

8150 Barbara Avenue
Inver Grove Heights
Minnesota 55077

Engineering
651-450-2570

Streets and Utilities
651-450-4309

www.ighmn.gov

February 23, 2022

Sue Polka, PE
City of South St. Paul
125 3rd Avenue N
2nd Floor
South St. Paul, MN 55075

**SUBJECT: DNR Local Trail Connections and Federal Recreational Trail
Program Applications**

Dear Ms. Polka,

The City of Inver Grove Heights supports the City of South St. Paul's applications for funding through the Minnesota Department of Natural Resources' Local Trail Connections Program and Federal Recreational Trail Program for the Seidls Lake Trail Reconstruction and Extension Project. This project will reconstruct trails within Seidls Lake Park that were damaged by high water levels and provide for construction of a new trail segment from the existing trail along the east side of Seidls Lake to the existing trail between Blaine Ave and 47th St E in the City of Inver Grove Heights.

Conservation Partners Legacy Grant funds have also been secured to complete shoreland restoration activities within the park. Securing funds to reconstruct and extend the existing trail will fill a gap in funding to achieve the local vision for Seidls Lake Park, and allow the opportunity for both the trail restoration/extension and shoreland restoration activities to be completed concurrently.

Completion of the proposed trail project will improve access to the restored Seidls Lake Park area, particularly from the Inver Grove Heights side of the park, which currently lacks access to the shoreline of Seidls Lake. The project will provide opportunities for walking and biking, fishing, wildlife viewing, and other recreational activities. The proposed trail extension will also create a valuable nonmotorized connection between residential neighborhoods north of the park in South St. Paul, and the existing trail and playground area at the south end of the park in Inver Grove Heights.

Please give this important project your full consideration for receipt of Local Trail Connections and Federal Recreational Trail Program funding.

Thank you,

Brian D. Connolly, PE
Public Works Director

Adam Lares
Parks and Recreation Director



February 16, 2022

Sue Polka, PE
City Engineer - South St. Paul

SUBJECT: DNR Local Trail Connections and Federal Recreational Trail Program Applications

Dear Ms. Polka,

The Lower Mississippi River Watershed Management Organization (LMRWMO) fully supports the City of South St. Paul's applications for funding through the Minnesota DNR's Local Trail Connections Program and Federal Recreational Trail Program for the Seidls Lake Trail Reconstruction and Extension Project.

This project is vital to reconnect residents with the unique regional resource of Seidls Lake and Park, which together provide essential aquatic and terrestrial habitat that is otherwise lacking in this portion of the LMRWMO. It is essential to reconstruct these trails within Seidls Lake Park that were damaged by high water levels and create the new trail segment along the east side of Seidls Lake. Restoration of the Seidls Lake area is a continued priority for both cities that uniquely manage this shared resource, as well as the LMRWMO. With this requested grant funding, thousands of residents of South St. Paul and Inver Grove Heights can benefit from this planned regional trail centerpiece.

This project will perfectly complement the recently secured Conservation Partners Legacy Grant for shoreline restoration around Seidls Lake. Also, the newly installed outlet and lift station will provide the stable water levels needed to stop shoreline erosion around the lake and prevent damage to the new trail. Finally, stormwater management projects recently installed in the watershed of Seidls Lake protect this regional resource from further water quality degradation. Securing funds to reconstruct and extend the existing trail will fill a gap in funding to achieve the local vision for Seidls Lake Park.

Completion of the proposed trail project will improve access to the restored Seidls Lake Park area, which will provide opportunities for walking, biking, fishing, and access to the natural features the Park provides. The trail extension will also create a valuable and safe nonmotorized connection between residential neighborhoods north of the park in South St. Paul and the existing trail and playground area at the south end of the park in Inver Grove Heights.

The proposed project is consistent with existing plans, intended uses for the Park, and the goals of the LMRWMO. The LMRWMO requests that grant reviewers please give this important project strong attention for receipt of Local Trail Connections and Federal Recreational Trail Program funding.

Thank you,

Joe Barten
Administrator - Lower Mississippi River Watershed Management Organization

Request for Council Action

SUBJECT: **Continued Discussion of Utility Rate Study - Water Rates**

MEETING DATE: August 22, 2022

ITEM TYPE: Regular Business

CONTACT: Kris Wilson, City Administrator, 651.450.2511
 Brian Connolly, Public Works Director, 651.450.2571
 Amy Hove, Finance Director, 651.450.2521

ACTION REQUESTED

The Council is asked to continue discussion of the city's utility rates and fees, with a focus on water rates. This is a discussion item, with Council feedback and direction being sought, but no formal action being requested.

BACKGROUND

As the Council is aware, the City is in the process of working with consultants AE2S on a comprehensive review and analysis of the city's utility rates and fees. At the Council's July work session, representatives of AE2S provided a wide ranging overview of the work being done and some of the numerous policy questions and choices that have surfaced. At this Council meeting, staff would like to take a deeper dive into one specific portion of the study - water rates - and get the Council's reactions and feedback to one possible rate structure for the future.

The attached presentation provides background information and an overview of the issues to be addressed under the category of water rates. Future discussions will be scheduled to dive deeper into sanitary sewer and stormwater rates, connection fees, and needed capital investments.

FISCAL IMPACT

RECOMMENDATION

This is a discussion item. No formal recommendation is being presented for Council consideration at this time.

ATTACHMENTS

1. Draft Water Recommendations - for August 22 CC Agenda Packet (v2)



Comprehensive Utility Capital Planning & Rate Study

City of Inver Grove Heights

Draft Water Recommendations

August 15, 2022

About the Study

- In-depth review of:
 - Utility rates – paid by current residents/property owners on a quarterly or monthly basis
 - Utility fees – paid by developers and builders to connect a new structure to our system
- Covers water, sanitary sewer and stormwater utilities
- To be completed this fall – in time for setting 2023 rates
- Working with consultant AE2S
- Overall goal is to ensure that the City's utility rates are fair, transparent, and effective at funding the operation of our utility systems and paying for anticipated capital improvements in the coming years.



Today's Discussion

- Focused on ***Water Rates*** only – more to come later on sanitary sewer and stormwater rates, as well as connection fees for water, sewer and stormwater
- Review of proposed water rate structure, which:
 - Separates out the fixed charge from any water used.
 - Establishes a more significant increase in rates from tier to tier in order to enhance the conservation incentive.
 - Defines the tiers differently for commercial, industrial and institutional accounts versus residential accounts.
 - Changes how multi-family residential, commercial, industrial and institutional irrigation accounts are charged.
- Discuss the current senior discount program and whether it should be kept, modified or phased out.

Fixed Charge

- Current rate structure includes up to 2,000 gallons per month, or 6,000 gallons per quarter, as part of the fixed charge. This results in accounts using different quantities of water paying the same amount.
- Proposed rate structure separates out the fixed charge from any water used. Every customer would pay a fixed charge plus a rate per 1,000 gallons used.
- Best-practice is to generate 30% of revenue from the fixed charge.
(This is one of the things rating agencies look for to ensure you have a stable revenue stream to cover fixed costs.)

Tier Structure – Part 1: Conservation Pricing

- Both the current and proposed rate structures have 4 tiers.
- The purpose of having a tiered rate structure is to incentivize water conservation. The more water used, the more expensive it gets per gallon. *(The state requires cities to have a conservation-pricing structure.)*
- Proposed rate structure changes the degree of price increase moving from one tier to the next.
- Current tier structure:
 - Tier 3 is 15% more than Tier 2
 - Tier 4 is 8% more than Tier 3
- Proposed tier structure:
 - Tier 2 Rate is **20% more** than Tier 1 Rate
 - Tier 3 Rate is **30% more** than Tier 2 Rate
 - Tier 4 Rate is **40% more** than Tier 3 Rate

Tier Structure – Part 2: Tiers by User Type

- Current rate structure defines the tiers the same for all types of accounts (single-family residential, multi-family residential, commercial, industrial, institutional and irrigation accounts).
- Proposed rate structure has three tier structures
 - Residential – both single-family & multi-family
 - Commercial, Industrial and Institutional
 - Irrigation
- The proposed tier structures are equivalent for single-family and multi-family residential, although one is billed quarterly while the other is billed monthly, so the rate tables look a little different at first glance.
- The proposed tier structure for irrigation accounts applies to multi-family, commercial, industrial and institutional irrigation accounts – all of which are separately metered from those properties' indoor water use. Irrigation at single-family residential properties is on the same meter as indoor water use and therefore would not be subject to the new irrigation rates being proposed.

Proposed Water Rate Structure

Tier Structure – Part 2 (continued)

	Residential (Single & Multi-Family)	Commercial, Industrial, & Institutional	Irrigation Accounts (not single-family)
Tier 1	0 to 2,000 gallons	0 to 7,000 gallons	NA
Tier 2	2,001 to 7,000 gallons	7,001 to 20,000 gallons	NA
Tier 3	7,001 to 13,000 gallons	20,001 to 80,000 gallons	0 to 13,000 gallons
Tier 4	13,001 gallons +	80,000 gallons +	13,001 gallons +

Possible Water Rates for 2023

- The possible water rates shown on the upcoming slides incorporate:
 - A fixed charge that generates 30% of revenue, but doesn't include any water
 - A stronger escalation in price from one tier to the next to encourage conservation
 - Different tier definitions for different user types
- The possible water rates shown are estimated to generate 5% more revenue, in total, for the City's water system – assuming we sell the same volume of water as we did in 2021.
- They will not result in a 5% across the board increase in bills – some customers will see bills rise, others would see them decline – and by different amounts – depending on the amount of water used and type of user.
- The proposed structure and rates reflects a “reset” of our system.

Possible Water Rate Rates for 2023

Single-Family Residential	Existing 2022 Rates	Proposed 2023 Rates (5% Total Revenue Increase*)
Flat Fee (per Quarter)	\$24.50 per quarter	\$21.48 per quarter
Tier 1 (0 to 6,000 gallons)	<i>included in flat fee</i>	\$1.83 per 1,000 gallons
Tier 2, (6,001 to 21,000 gallons)	\$2.84 per 1,000 gallons	\$2.20 per 1,000 gallons
Tier 3, (21,001 to 39,000 gallons)	\$3.27 per 1,000 gallons	\$2.86 per 1,000 gallons
Tier 4, (39,001 gallons +)	\$3.54 per 1,000 gallons	\$4.00 per 1,000 gallons

***Single Family Accounts are billed quarterly – so water quantities charged at each Tier are converted to quarterly equivalents in the above table.**

These are the same rates proposed for multi-family accounts, but those are represented in monthly amounts because they are billed monthly.

**The estimate that the proposed rates will generate 5% more revenue is based on 2021 Water Usage. Actual 2023 revenue generation will be dependent on actual water sales times the new water rates.*

Possible Water Rate Rates for 2023

Single-Family Residential	Existing 2022 Rates	Proposed 2023 Rates (5% Total Revenue Increase*)
Flat Fee (per Quarter)	\$24.50 per quarter	\$21.48 per quarter
Tier 1 (0 to 6,000 gallons)	<i>included in flat fee</i>	\$1.83 per 1,000 gallons
Tier 2, (6,001 to 21,000 gallons)	\$2.84 per 1,000 gallons	\$2.20 per 1,000 gallons
Tier 3, (21,001 to 39,000 gallons)	\$3.27 per 1,000 gallons	\$2.86 per 1,000 gallons
Tier 4, (39,001 gallons +)	\$3.54 per 1,000 gallons	\$4.00 per 1,000 gallons

ITEMS of NOTE:

Flat Fee is proposed to be reduced. **BUT . . .** it no longer includes any water. Current structure include 2,000 gallons per month, or 6,000 gallons per quarter, within the flat fee.

Possible Water Rate Rates for 2023

Single-Family Residential	Existing 2022 Rates	Proposed 2023 Rates (5% Total Revenue Increase*)
Flat Fee (per Quarter)	\$24.50 per quarter	\$21.48 per quarter
Tier 1 (0 to 6,000 gallons)	<i>included in flat fee</i>	\$1.83 per 1,000 gallons
Tier 2, (6,001 to 21,000 gallons)	\$2.84 per 1,000 gallons	\$2.20 per 1,000 gallons
Tier 3, (21,001 to 39,000 gallons)	\$3.27 per 1,000 gallons	\$2.86 per 1,000 gallons
Tier 4, (39,001 gallons +)	\$3.54 per 1,000 gallons	\$4.00 per 1,000 gallons

ITEMS of NOTE:

The price increase from one tier to the next is proportionately larger in the proposed rates, compared to the current rates. This is to create a stronger conservation incentive.

Possible Water Rate Rates for 2023

Single-Family Residential	Existing 2022 Rates	Proposed 2023 Rates (5% Total Revenue Increase*)
Flat Fee (per Quarter)	\$24.50 per quarter	\$21.48 per quarter
Tier 1 (0 to 6,000 gallons)	<i>included in flat fee</i>	\$1.83 per 1,000 gallons
Tier 2, (6,001 to 21,000 gallons)	\$2.84 per 1,000 gallons	\$2.20 per 1,000 gallons
Tier 3, (21,001 to 39,000 gallons)	\$3.27 per 1,000 gallons	\$2.86 per 1,000 gallons
Tier 4, (39,001 gallons +)	\$3.54 per 1,000 gallons	\$4.00 per 1,000 gallons

ITEMS of NOTE:

Even with the stronger conservation incentive, the proposed rates for Tier 2 and Tier 3 water is lower than current Tier 2 and 3 rates. This is because the sale of this water no longer has to subsidize the gallons that were previously included in the flat fee.

Possible Water Rate Rates for 2023

Multi-Family Residential**	Existing	Proposed
Flat Fee	\$8.17 per unit per month	\$7.16 per unit per month
Tier 1, (0 to 2,000 gallons per unit)	<i>included in flat fee</i>	\$1.83 per 1,000 gallons
Tier 2, (2,001 to 7,000 gallons per unit)	\$2.84 per 1,000 gallons	\$2.20 per 1,000 gallons
Tier 3, (7,001 to 13,000 gallons per unit)	\$3.27 per 1,000 gallons	\$2.86 per 1,000 gallons
Tier 4, (13,001 gallons + per unit)	\$3.54 per 1,000 gallons	\$4.00 per 1,000 gallons

** Monthly Rate Charged per Unit for Multi-Family Residential

Possible Water Rates for 2023

Commercial, Industrial, Institutional

Existing 2022 Rates		Proposed 2023 Rates	
Flat Fee	\$8.17 per month	Flat Fee	\$7.16 per month
Tier 1 (0 to 2,000 gallons)	<i>included in flat fee</i>	Tier 1 (0 to 7,000 gallons)	\$1.83 per 1,000 gallons
Tier 2 (2,001 to 7,000 gallons)	\$2.84 per 1,000 gallons	Tier 2 (7,001 to 20,000 gallons)	\$2.20 per 1,000 gallons
Tier 3 (7,001 to 13,000 gallons)	\$3.27 per 1,000 gallons	Tier 3 (20,001 to 80,000 gallons)	\$2.86 per 1,000 gallons
Tier 4 (13,000 gallons +)	\$3.54 per 1,000 gallons	Tier 4 (80,001 gallons +)	\$4.00 per 1,000 gallons

- Proposed rates per Tier are the same as for residential (i.e. \$1.83 per 1,000 gallons for Tier 1, \$2.20 per 1,000 gallons for Tier 2, etc.)
- Quantity of water included in each Tier is proposed to be different for commercial, industrial and institutional customers. (Quantities of water in each Tier are currently the same for all customer types.)

*Based on 2021 Water Usage
– 2023 revenue generation
will be dependent on actual
water sales

Possible Water Rates for 2023

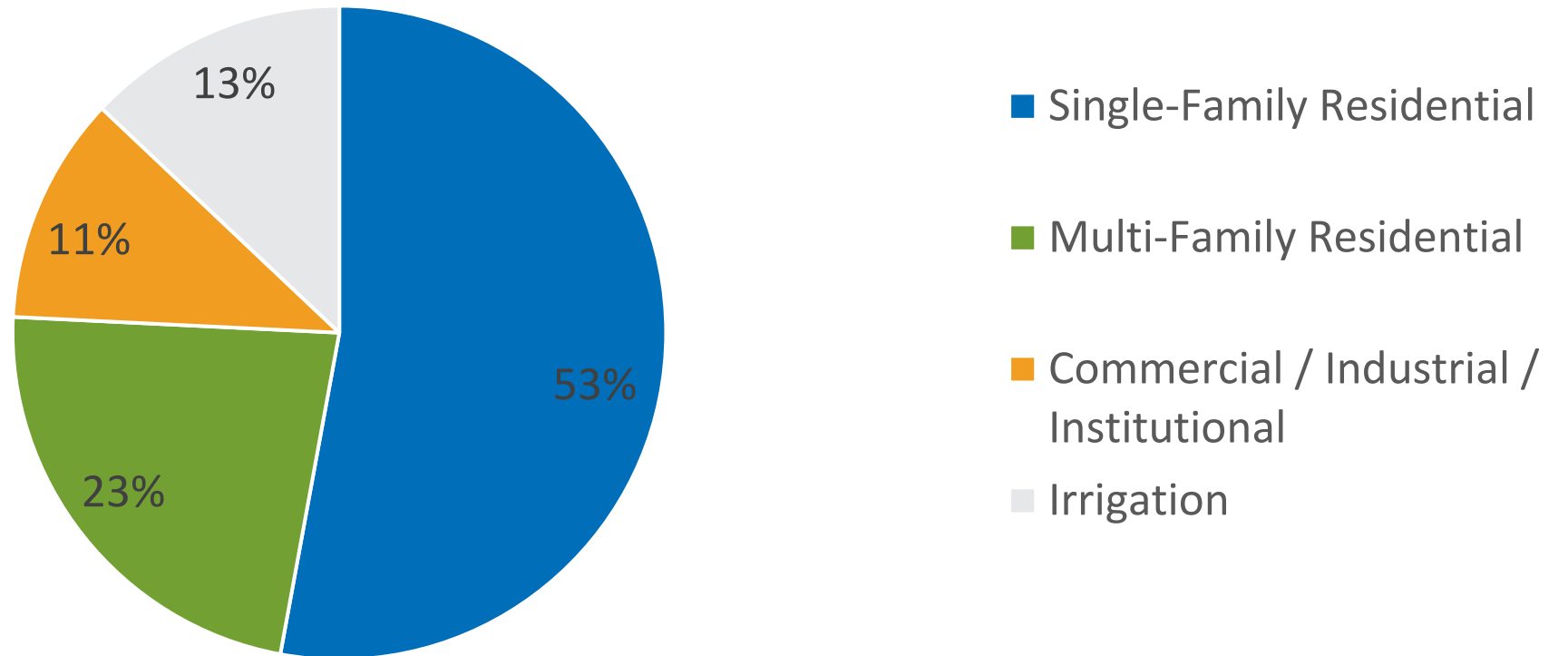
Multi-Family, Commercial, Industrial and Institutional **IRRIGATION** Accounts

Existing 2022 Rates		Proposed 2023 Rates	
Flat Fee	\$8.17 per month	Flat Fee	\$7.16 per month
Tier 1 (0 to 2,000 gallons)	<i>included in flat fee</i>	Tier 1	NA
Tier 2 (2,001 to 7,000 gallons)	\$2.84 per 1,000 gallons	Tier 2	NA
Tier 3 (7,001 to 13,000 gallons)	\$3.27 per 1,000 gallons	Tier 3 (0 to 13,000 gallons)	\$2.86 per 1,000 gallons
Tier 4 (13,000 gallons +)	\$3.54 per 1,000 gallons	Tier 4 (13,001 gallons +)	\$4.00 per 1,000 gallons

- Proposed to have first gallon of irrigation use charged at Tier 3 rate.
- Not directly applicable to irrigation at a single-family homes because they do not have separate meters for irrigation. But their irrigation use is already billed on top of their indoor use, so it is most likely being charged at a higher tier as a result.

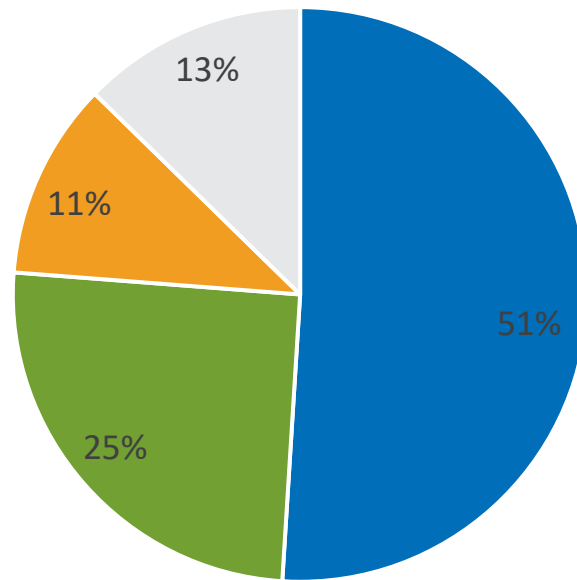
Water Usage by Class

Annual Water Usage by User Class (2021 Data)



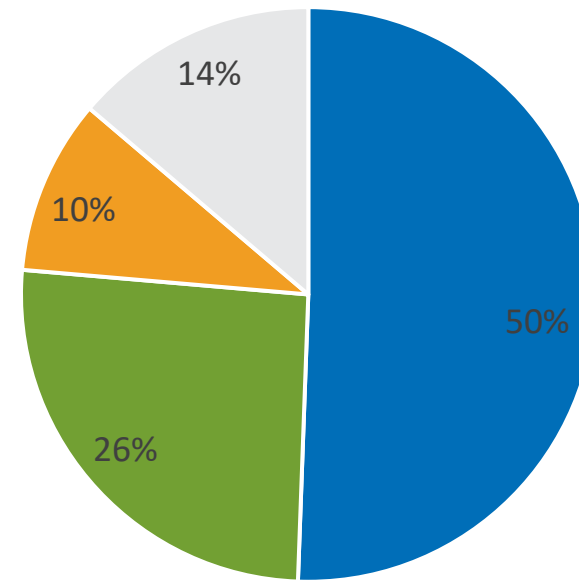
Revenue Comparison by User Class

Revenue by User Class
(Existing Rates)



- Single-Family Residential
- Multi-Family Residential
- Commercial / Industrial / Institutional
- Irrigation

Revenue by User Class
(Proposed Rates)

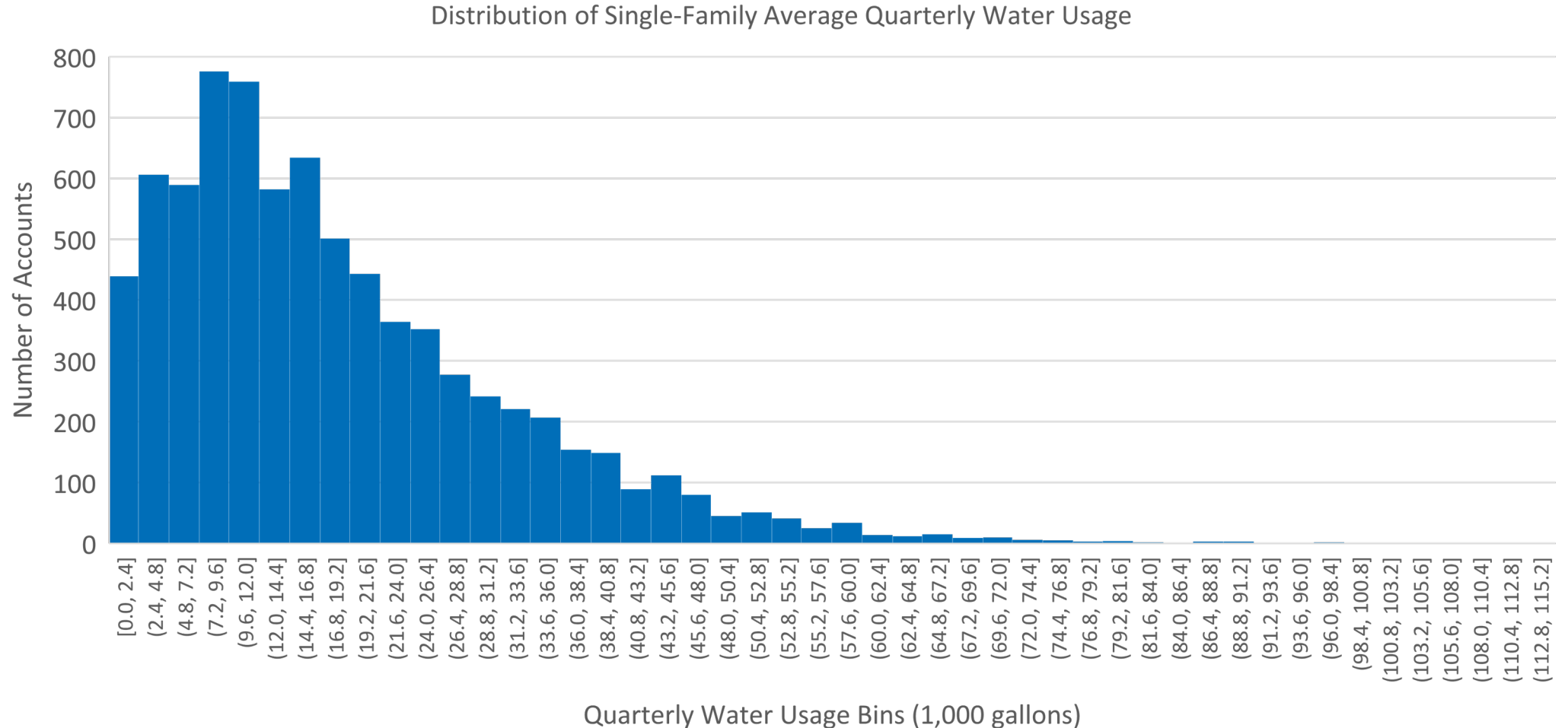


- Single-Family Residential
- Multi-Family Residential
- Commercial / Industrial / Institutional
- Irrigation

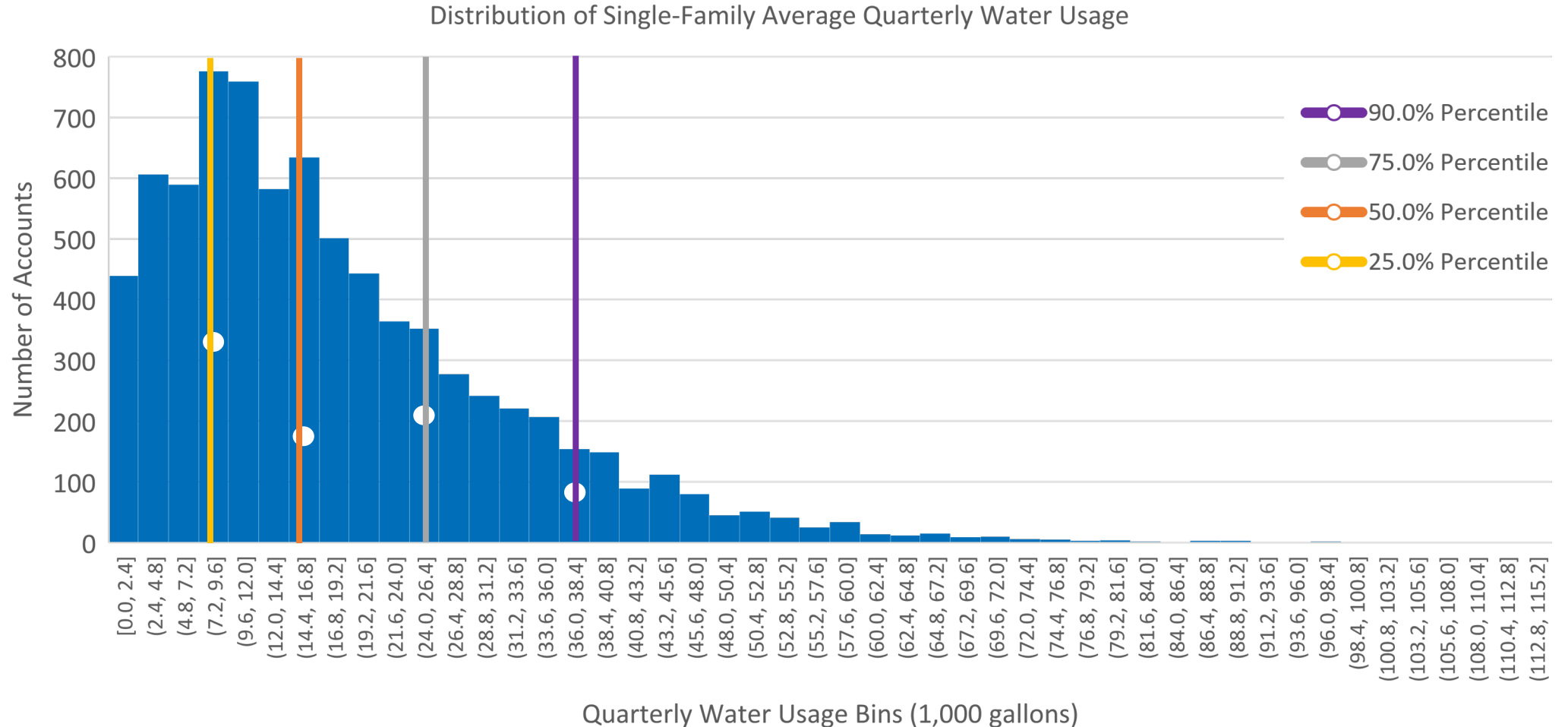
Rate Impacts

Single-Family Residential – Billed Quarterly		
Water Usage Per Quarter	Existing Quarterly Bill – for Water	Quarterly Bill – for Water Under Proposed Rates
3,000 gallons	\$24.50	\$26.97
6,000 gallons	\$24.50	\$32.46
12,000 gallons	\$41.54	\$45.66
18,000 gallons	\$58.58	\$58.86
24,000 gallons	\$77.34	\$74.04
30,000 gallons	\$96.96	\$91.20
45,000 gallons	\$147.36	\$140.94

How much water do our single-family customers use per quarter?



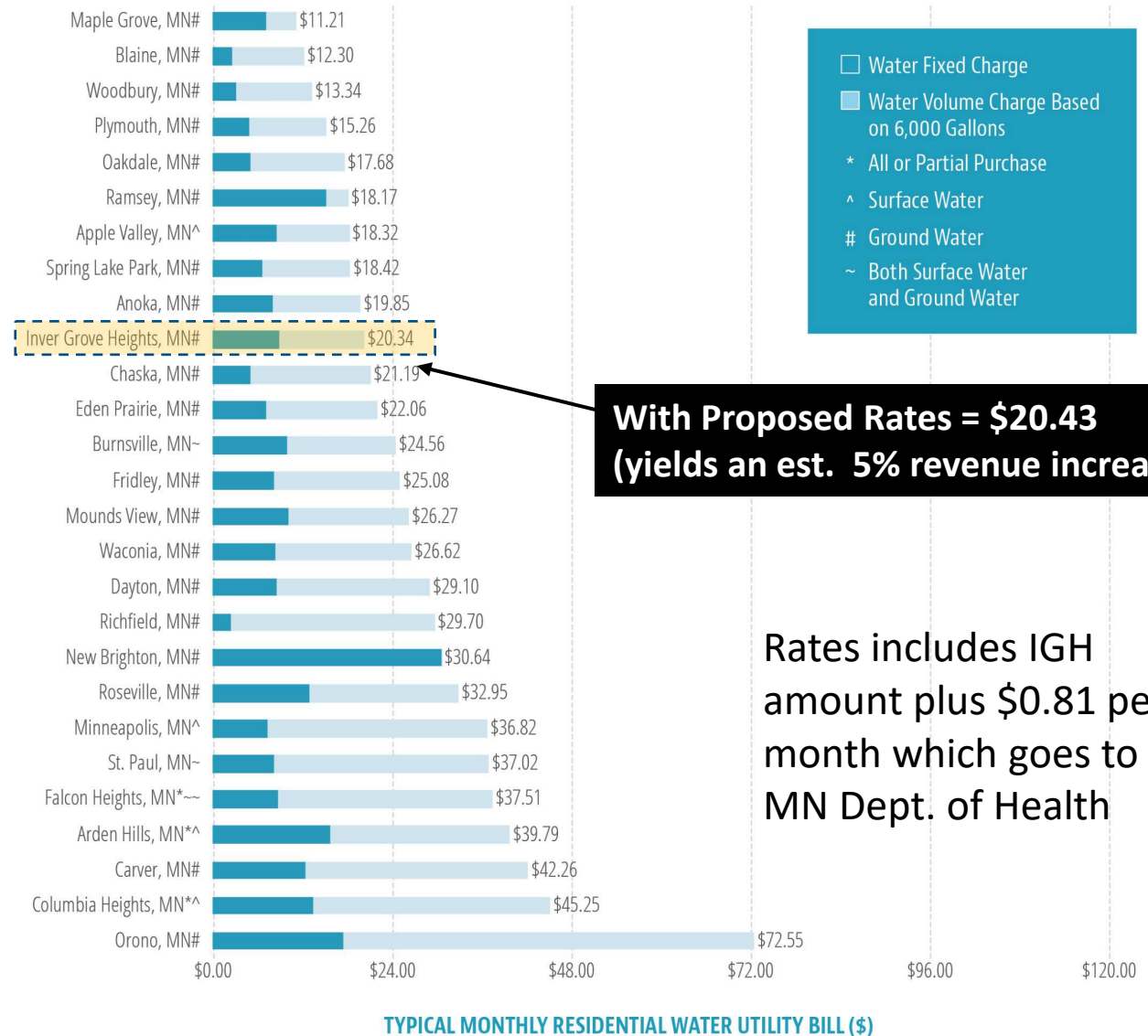
How much water do our single family customers use per quarter?



How do IGH's water bills for single family accounts compare to other metro-area cities?

Based on 6,000 gallons per month, or 18,000 gallons per quarter – Water bill would be \$20.34 per month under old structure - \$20.43 under new structure.

MINNEAPOLIS/ST. PAUL METRO AREA



Rate Impacts

Multi-Family Residential – 8 Units – Billed Monthly

Water Used	Bill Under Existing Rates – for Water	Bill Under Proposed Rates – for Water
10,000 gallons	\$65.36	\$75.58
16,000 gallons	\$65.36	\$86.56
40,000 gallons	\$133.52	\$139.36
80,000 gallons	\$257.44	\$243.20

NOTE: Under our existing rate structure, in this example a property using 10,000 gallons would pay the same as a property using 16,000 gallons because for 8 units, the first 16,000 gallons (2,000 gallons per unit) are included in the base fee. So any amount up to 16,000 gallons would pay the same fee – which is the base fee. The proposed rate structure changes this, so you are billed for every 1,000 gallons used.

Rate Impacts

Multi-Family Residential – 24 Units – Billed Monthly

Water Used	Bill Under Existing Rates – for Water	Bill Under Proposed Rates – for Water
30,000 gallons	\$196.08	\$226.74
48,000 gallons	\$196.08	\$259.68
120,000 gallons	\$400.56	\$418.08
240,000 gallons	\$772.32	\$729.60

NOTE: Under our existing rate structure, in this example a property using 30,000 gallons would pay the same as a property using 48,000 gallons because for 24 units, the first 48,000 gallons (2,000 gallons per unit) are included in the base fee. So any amount up to 48,000 gallons would pay the same fee – which is the base fee. The proposed new structure changes this – so if you use more water, you pay for more water.

Rate Impacts

Multi-Family Residential – 48 Units – Billed Monthly

Water Used	Bill Under Existing Rates – for Water	Bill Under Proposed Rates – for Water
60,000 gallons	\$392.16	\$453.48
96,000 gallons	\$392.16	\$519.36
240,000 gallons	\$801.12	\$836.16
480,000 gallons	\$1,554.64	\$1,459.20

NOTE: Under our existing rate structure, in this example a property using 60,000 gallons would pay the same as a property using 96,000 gallons because for 48 units, the first 96,000 gallons (2,000 gallons per unit) are included in the base fee. So any amount up to 96,000 gallons would pay the same fee – which is the base fee. The proposed new structure changes this – so if you use more water, you pay for more water.

Rate Impacts

Commercial / Industrial / Institutional – Billed Monthly

Water Usage Per Month	Existing Monthly Bill – for Water	Monthly Bill – for Water Under Proposed Rates
1,000 gallons	\$8.17	\$8.99
4,000 gallons	\$13.85	\$14.48
6,000 gallons	\$19.53	\$18.14
10,000 gallons	\$32.18	\$26.57
60,000 gallons	\$208.37	\$162.97
100,000 gallons	\$349.97	\$300.17
300,000 gallons	\$1,057.97	\$1,100.17
500,000 gallons	\$1,765.97	\$1,900.17
1,000,000 gallons	\$3,535.97	\$3,900.17

Senior Discount

- Currently offered on single-family, residential water bills only
 - No discount on sewer or stormwater bills
 - No discount if living in a multi-family setting, where utilities are part of your rent
- Discount is approx. 50% off of the base water fee
 - Current base water fee is \$24.50 per quarter – seniors pay \$12.03 per quarter
- 21% of our residential water customers are receiving the senior discount (1,557 accounts out of 7,348 single-family residential accounts)
- Not a common discount – unable to find similar programs in other cities.
- No basis in income or ability to pay. Some seniors may be much better off financially than some younger households, but age is the only criteria.

Senior Discount

- Does Council want to continue to have a Senior Discount on Water Rates?
- If yes, are there any changes that Council would like to consider? Or should it remain a 50% discount off of the flat fee?