



MAYOR & COUNCIL COMMUNICATION

DATE: July 21, 2015
REGULAR
ITEM #17
RESOLUTION 2015-59

AGENDA ITEM: Halcyon Cemetery Preliminary and Final Plat

SUBMITTED BY: Nick M. Johnson, City Planner

THROUGH: Julie Johnson, City Clerk

REVIEWED BY: Planning Commission
Kyle Klatt, Community Development Director
Jack Griffin, City Engineer
Greg Malmquist, Fire Chief
Washington County Public Works

SUGGESTED ORDER OF BUSINESS:

- Introduction of ItemCommunity Development Director
- Report/Presentation.....Community Development Director
- Questions from Council to Staff Mayor Facilitates
- Call for Motion Mayor & City Council
- Discussion Mayor & City Council
- Action on Motion..... Mayor Facilitates

POLICY RECCOMENDER: Planning Commission

FISCAL IMPACT: None, all of the review activities on the part of the City are reimbursed by application and escrow fees submitted by the developer. All of the improvements to the site are private.

SUMMARY AND ACTION REQUESTED: The City Council is being asked to consider a request from Mr. Lee Rossow for approval of a preliminary and final plat for a cemetery to be called Halcyon located at 11050 50th Street North. The Planning Commission held a public hearing to consider the matter at its July 13, 2015 meeting and unanimously recommended approval of the Halcyon Cemetery Preliminary and Final Plat subject to 14 conditions of approval. The suggested motions to adopt the Planning Commission recommendation is as follows:

“Move to adopt Resolution No. 2015-59, approving the Halcyon Cemetery Preliminary and Final Plat.”

BACKGROUND INFORMATION:

Attached is the original detailed Staff report that was provided to the Planning Commission regarding the applicant’s request for preliminary and final plat approval. The staff report includes general information about the application, a summary of the relevant planning and zoning issues, a thorough review and analysis of the final plat (including a draft list of recommended conditions of approval), draft findings, and the Staff recommendation to the Planning Commission.

PLANNING COMMISSION REPORT:

The Planning Commission held a public hearing to review the preliminary and final plat application at its July 13, 2015 meeting. During the public hearing, the Planning Commission received the following testimony:

- Jean Madrinich, 11420 50th Street N., noted that there are multiple flood plains in the area. She asked how the flood plains are being addressed. Lee Rossow noted that they have worked through those issues with the watershed district. Ms. Madrinich also noted concern about additional traffic that would be generated on 50th Street.
- Deb Kreuger, 4552 Lake Elmo Ave. N., asked questions about the need for parkland dedication associated with this property. In addition, she referenced several State Statutes that relate to cemeteries. She wanted to ensure that the statutory requirements are being followed with the project, especially the establishment of a permanent care trust fund for the cemetery association. The applicant noted that a trust fund is being established with the project.
- Janet Thompson, 11491 50th Street N., noted that she is concerned about a commercial venue being placed in a residential area. She stated that her family moved here to live in a rural area, and this use is not in keeping with that goal.
- Rebecca Tenpas, 11330 50th Street N., stated that she does not believe the proposed use is consistent with the rural character that the City desires. She also stated that the traffic on 50th Street is a concern, and the use will add to the existing problem.
- Rich Day, owner of a property to the south of the proposed cemetery, asked if the project has undergone an environmental review, such as an EIS. Johnson noted that the project did not meet the threshold to trigger an environmental review, but that the City does have the discretion to request environmental review. Mr. Day also voice his concern about the storm water on the site that travels to his property. The applicant noted that they have received permit approval from the Valley Branch Watershed District for the proposed storm water management design.

- Jeffrey Saffle, 11180 50th Street N., asked if the lights on the site would be compliant with dark skies standards. He noted that is important to follow the City's dark skies ordinance.
- Saxe Roberts, 11165 50th Street N., noted his concern about the effect of cemeteries on property values. Mr. Roberts agreed with staff that research is inconclusive on the matter, but he worried that the presence of the cemetery would eliminate some buyers for his property in the future.

The full account of the testimony can be reviewed in the draft Planning Commission minutes dated 7/13/15.

The Planning Commission discussed a variety of topics in considering the preliminary and final plat application for the cemetery. In discussing the project, the Planning Commission added the following conditions:

- A condition was added that any future expansions for the cemetery use would need City review and approval.
- A condition was added to ensure that dark skies ordinances were followed.
- A condition was added that any expansion of the home meet design criteria contained in the City's design standards.
- A condition was added to add a warranty period for the transplanted trees on the site.
- A condition was added to provide additional screening along the east and north property lines.
- Finally, a condition was added that the cemetery association provide copies of all annual minutes and financial reporting of the permanent care trust fund to the City on an annual basis.

The Planning Commission recommended approval of the Halcyon Cemetery Preliminary and Final Plat with 14 conditions of approval. The vote to recommend approval of the preliminary and final plat was unanimous (Vote: 6-0).

STRENGTHS, WEAKNESSES, OPPORTUNITIES, THREATS (SWOT):

Strengths: The proposed preliminary and final plat are compliant with the City's subdivision ordinance, as well as other ordinances found in the zoning code.

Weaknesses: Neighboring property owners have expressed concerns about traffic generated by the use.

Opportunities: N/A

Threats: N/A

RECOMMENDATION:

Based on the aforementioned, the Planning Commission and Staff are recommending that the City Council approve the Halcyon Cemetery Preliminary and Final Plat through the following motion:

“Move to adopt Resolution No. 2015-59, approving the Halcyon Cemetery Preliminary and Final Plat.”

ATTACHMENTS:

1. Resolution 2015-59
2. Staff Report to the Planning Commission, 7/13/15
3. Location Map
4. Application Forms and Project Narrative
5. Preliminary and Final Plat and Plans
6. City Engineer Review Memorandum, dated 7/8/15
7. Fire Chief Review Memorandum, dated 7/7/15
8. Washington County Review Memorandum, dated 7/7/15
9. Valley Branch Watershed District Permit
10. Lake Elmo Transportation Plan, Existing and Projected Traffic Volumes
11. Cemetery Proximity and Single Family Home Price Report (1st Half)

INCLUDED IN THE ELECTRONIC PACKET BUT NOT PROVIDED IN HARD COPY:

1. 2nd Half of Cemetery Proximity and Single Family Home Price Report – Supporting Data
2. Information Handout from League of MN Cities on Cemeteries

**CITY OF LAKE ELMO
WASHINGTON COUNTY
STATE OF MINNESOTA**

RESOLUTION NO. 2015-59

*A RESOLUTION APPROVING A PRELIMINARY AND FINAL PLAT FOR THE HALCYON
CEMETERY*

WHEREAS, the City of Lake Elmo is a municipal corporation organized and existing under the laws of the State of Minnesota; and

WHEREAS, Mr. Lee Rossow, 11050 50th Street North, Lake Elmo MN 55042 has submitted an application to the City of Lake Elmo (“City”) for a Preliminary and Final Plat for a cemetery to be called Halcyon, a copy of which is on file in the City of Lake Elmo Community Development Department; and

WHEREAS, the proposed Final Plat includes a cemetery on one parcel of land (PID: 01.029.21.33.0003) in the Rural Planning Area; and

WHEREAS, the Lake Elmo Planning Commission held a public hearing on July 13, 2015 to consider the Preliminary and Final Plat application; and

WHEREAS, the Lake Elmo Planning Commission adopted a motion recommending approval of the Final Plat subject to 14 conditions of approval; and

WHEREAS, the Lake Elmo Planning Commission has submitted its report and recommendation concerning the Preliminary and Final Plat as part of a memorandum to the City Council for the July 21, 2015 Council Meeting; and

WHEREAS, the City Council reviewed the Halcyon Cemetery Preliminary and Final Plat at its meeting held on July 21, 2015 and made the following findings of fact:

- 1) That the Halcyon Cemetery Final Plat is consistent with the Lake Elmo Comprehensive Plan and the Future Land Use Map for this area.
- 2) That the Halcyon Cemetery complies with the City’s RR – Rural Residential zoning district.
- 3) That the Halcyon Cemetery complies with the City’s subdivision ordinance.
- 4) That the Halcyon Cemetery Final Plat meets other City zoning ordinances, such as landscaping, tree preservation, erosion and sediment control, off-street parking and other ordinances, except where noted in this report herein.
- 5) That the Halcyon Cemetery Final Plat is consistent with the City’s engineering standards, except where noted, provided the plans are updated to address the City Engineer’s

comments documented in a letter dated July 8, 2015 and the Fire Chief's comments documented in a letter dated July 7, 2015.

- 6) The applicant has committed to establishing a permanent care trust fund consistent with the requirements established under State Statute.

NOW, THEREFORE, BE IT RESOLVED THAT the City Council does hereby approve the Halcyon Cemetery Preliminary and Final Plat subject to the following conditions:

- 1) The applicant shall revise the Final Plat to accommodate all required right-of-way on Lake Elmo Avenue and 50th Street North as documented in review memorandums submitted by Washington County and the City Engineer.
- 2) All required modifications to the plans as requested by the City Engineer in a review letter dated July 8, 2015 shall be incorporated into the plans prior to the City's execution of the Final Plat.
- 3) The developer shall follow all of the rules and regulations spelled out in the Wetland Conservation Act, and abide by all conditions of approval established in the approved Valley Branch Watershed District permit.
- 4) The applicant shall be responsible to address all review comments submitted by Washington County described in the review memorandum received from the County dated July 7, 2015. In addition, the applicant shall obtain all necessary right-of-way permitting from Washington County.
- 5) The Landscape Plan shall be revised to include 6 additional trees to fulfill the City's Landscaping Requirements. In addition, the plant material that is on top of utilities shall be moved to comply with the direction of the City Engineer per his memorandum dated July 8, 2015. Finally, prior to installation of plant material, the plan shall be reviewed by the City's Landscape Consultant for final approval.
- 6) The applicant must enter into an agreement with the City to own, operate and maintain the private storm water facilities on the property. The storm water maintenance agreement must be recorded with the Final Plat.
- 7) Prior to the issuance of grading/building permits, all review comments of the Fire Chief must be addressed by the applicant.
- 8) The applicant shall obtain the necessary permitting from Washington County to install a new septic system to serve the property prior to the City issuing and building permits for the remodel of the home.
- 9) Any future expansion of the site, including plans to install a crematorium, shall be reviewed and approved by the City.
- 10) All lighting installed on the Halcyon Cemetery site must comply with the City's dark skies ordinance.

- 11) Any alterations to the existing single family home shall be reviewed for conformance to the City's design standards.
- 12) All transplanted trees transplanted on the site shall include a 2-year warranty period to ensure survival. Any trees that do not survive the two-year period shall be replaced.
- 13) The Landscape Plan shall be amended to add plantings along the Eastern and Northern property lines consistent with screening requirements specified in 154.258.F of the City Code.
- 14) Annual meeting minutes, including annual financial reporting and status of the permanent care trust fund, shall be submitted to the City on an annual basis.

Passed and duly adopted this 21st day of July, 2015 by the City Council of the City of Lake Elmo, Minnesota.

Mike Pearson, Mayor

ATTEST:

Julie Johnson, City Clerk



PLANNING COMMISSION
DATE: 7/13/2015
AGENDA ITEM: 4A – PUBLIC HEARING
CASE # 2015-06

ITEM: Halcyon Cemetery – Preliminary and Final Plat

SUBMITTED BY: Nick Johnson, City Planner

REVIEWED BY: Kyle Klatt, Community Development Director
Jack Griffin, City Engineer
Ann Pung-Terwedo, Washington County
Greg Malmquist, Fire Chief

SUMMARY AND ACTION REQUESTED:

The Planning Commission is being asked to hold a public hearing to consider a Preliminary and Final Plat application request from Mr. Lee Rossow for a cemetery to be platted on a 10-acre parcel located at the northeast corner of Lake Elmo Avenue (CSAH 17) and 50th Street North. Staff is recommending approval of the request subject to compliance with 8 conditions as noted in this report.

GENERAL INFORMATION

Applicant: Lee Rossow, 11050 50th Street North, Lake Elmo, MN 55042

Property Owners: Lee Rossow, 11050 50th Street North, Lake Elmo, MN 55042

Location: Part of Section 01, Township 29 North, Range 21 West in Lake Elmo, immediately north of 50th Street and immediately east of Lake Elmo Avenue (CSAH 17). PID Number: 01.029.21.33.0003

Request: Application for preliminary and final plat approval of a cemetery to be called Halcyon.

Existing Land Use and Zoning: Single Family Detached, Rural Residential (RR) zoning

Surrounding Land Use and Zoning: North – single family home (RR); west – single family home (RR); south – Agricultural (RR); east – single family residential (RR) and Municipal Well Site #4.

Comprehensive Plan: Rural Area Development

History: Sketch Plan review by Planning Commission on 11/24/2014.

Deadline for Action: Application Complete – 6/17/2015
60 Day Deadline – 8/17/2015
Extension Letter Mailed – No
120 Day Deadline – 10/16/2015

Applicable Regulations: Chapter 153 – Subdivision Regulations
Article IX – Rural Districts
Article V – Off Street Parking
Article VI – Landscaping and Tree Preservation
§150.270 Storm Water, Erosion, and Sediment

REQUEST DETAILS

The City of Lake Elmo has received a request from Mr. Lee Rossow to plat a 10-acre cemetery at 11050 50th Street North to be called Halcyon. Under State Law, cemeteries must be filed and recorded with the County. In order for the cemetery plat to be filed and recorded at the County, the City must approve a final plat for the cemetery. The Planning Commission is asked to hold a public hearing on the proposed cemetery plat. The proposed cemetery would be located at the northeast corner of Lake Elmo Ave. and 50th St. North. The 10-acre parcel has historically been used as a single family residential home.

It should be noted that a Sketch Plan of the Halcyon Cemetery was reviewed by the Planning Commission on November 24th of 2014. At the Sketch Plan review level, the City completed a high-level review of the proposal to inform a future preliminary/final plat application. There is no formal approval issued by the City at the time of Sketch Plan review. According to standard subdivision procedures, a typical plat will go through both a preliminary and final plat review process. However, it is possible to proceed with preliminary and final plat review concurrently for plats of more limited scope and size. In the judgment of staff, the review of the Halcyon Cemetery represents such an application of more limited scope/size where the review of preliminary and final plans should be permitted to proceed in a concurrent fashion. Therefore, the applicant has prepared a final plat and construction plans for consideration by the City.

The existing condition of the property is that of a single family residential home with an accessory building on the eastern side of the property. It should be noted that the existing home has access off both 50th Street and Lake Elmo Avenue. The proposed cemetery would eliminate the access on Lake Elmo Ave., improving the access spacing related to driveways on the County arterial road. Access to the proposed cemetery would be accommodated off of 50th Street North approximately 270 feet east of Lake Elmo Ave. (CSAH 17). As part of the proposed cemetery use, the existing home and accessory building would be repurposed to support the cemetery use. The home would be used as an administrative office, caretaker quarters and gathering space for the bereaved. The existing accessory building would be utilized as a maintenance garage. In addition to these existing improvements, the applicant is planning to construct private storm water management facilities along the eastern portion of the site to address the additional impervious surface. It should be noted that these facilities have been designed to comply with the rules of the City of Lake Elmo and the Valley Branch Watershed District. With regards to the cemetery, the applicant is planning a total of 5 sections or areas to serve as burial sites or columbarium/mausoleums. Sections 1, 2 and 5 are within the planned Phase 1 area of the cemetery, while Sections 3 and 4 are in the planned Phase 2 area of the cemetery. The options for burial or interment include in-ground burials, mausoleums, columbarium, in-ground cremation and estate lots. At full capacity, the 5 sections could host the remains of 1,995 persons according to the site plan. Finally, there is also a 58-stall parking area planned for the cemetery. The parking lot would be utilized to accommodate larger parties for various burial ceremonies or rituals.

As far as utilities are concerned, the existing building will be served by a private septic system. The applicant has completed a compliance inspection and submitted to Washington County. The inspection revealed that the existing system is not compliant per Washington County ordinance.

Therefore, the applicant will need to construct a new septic system in consultation with Washington County Health Department (Condition #8). With regards to water, the site does have access to the City's municipal water system within 50th Street. Water service will be extended to the site to provide proper fire suppression for the home once it is converted to serve the cemetery use. It should also be noted that there is an existing well on the site. It is the understanding of the City that the well is to be protected and maintained for irrigation purposes.

PLANNING AND ZONING ISSUES

The Halcyon Cemetery parcel is guided Rural Area Development (RAD) according to the City's Comprehensive Plan. The existing zoning of the parcel is Rural Residential (RR). According to Article XI – Rural Districts of the Zoning Code, cemeteries are considered a permitted use within the Agricultural (A) and Rural Residential (RR) zoning districts. Therefore, the proposed use of a cemetery on this property is in compliance with the City's Zoning Code. It should also be noted that the Zoning Code does not contain any specific development standards for the cemetery use.

Based on Staff's review of the preliminary and final plat, the applicant has demonstrated compliance with all applicable code requirements at the level of detail that is required for a plat. As noted previously, the plat approval from the City is not required as a result of splitting the parcel into 4 or more lots, but rather as an approval of the proposed use prior to the filing of the property as a cemetery with Washington County. However, the platting procedures do allow the City and County to obtain the necessary right-of-way to serve both Lake Elmo Avenue and 50th Street.

With regards to parkland dedication, the Subdivision Ordinance does require that residential and commercial plats provide parkland dedication based upon a percentage or fee set under the City's Fee Schedule. Residential developments typically require a dedication percentage in between 7-10%, whereas the City's Fee Schedule require \$4,500/acre for commercial development be provided for parkland fees. In researching the cemetery use, staff has determined that the use is technically defined as a public cemetery association, meaning that the cemetery is owned privately but is open to the public. As a result of this definition and the fact that private cemeteries are considered a quasi-public use, staff does not believe that the City can require parkland dedication fees for the proposed use. The cemetery use is neither residential nor commercial, and thus staff is not recommending to impose any parkland dedication fees.

Finally, it should be noted that City staff has received some inquiries of concern from some surrounding property owners about the cemetery use. In speaking with the surrounding property owners, the general concerns staff has received relate to traffic, the effect on property values and the means to maintain the cemetery into perpetuity. Staff has completed some general research to look into these concerns:

- **Traffic.** With regards to increased traffic generated by the cemetery, the property is located at the intersection of a County arterial road and City major collector road. These facilities, as opposed to local residential streets, should be able to accommodate any increased traffic generated from the cemetery use. According to the City's Transportation Plan, the average daily traffic of 50th Street in 2009 was 500 trips, whereas the projected volume on 50th Street in 2030 is 1500 trips per day. Given this lower average daily traffic as of 2009, it is unlikely that the cemetery use would generate the amount of traffic that would come within any proximity of the available capacity. Lake Elmo average daily traffic as of 2009 was 3100 vehicle trips per day. The projected traffic volume for 2030 is 9200 vehicle trips per day. The applicant has estimated that daily travel to the cemetery will be extremely limited, with peak

travel resulting from scheduled funerals on an infrequent basis. While staff understands the concern over additional traffic generated by the proposed cemetery, the fact that the subject property is located at the intersection of an arterial road and major collector provides assurance to staff that the use would be ideally located. In the judgment of staff, there is adequate capacity on Lake Elmo Ave. and 50th Street.

- **Property Values.** Staff has received two concerns about reduced property values as a result of the proposed cemetery. Staff has conducted some research into this concern. Based on the limited research conducted, staff is not confident that there is a documented or proven correlation between property values and cemeteries. In researching the matter, the connection between cemeteries and property values remains inconclusive. There are academic studies and anecdotal articles that fall on both sides of the argument. For the benefit of the Planning Commission, staff has attached the article (Attachment #9) that presented the most comprehensive look at the effect of cemeteries on property values based on the research conducted.
- **Permanent Care of the Cemetery.** One resident that contact staff inquired about how the cemetery would be well maintained into the future. In researching this question, staff found that some cemeteries depending on location and population are required to maintain a Permanent Care and Improvement Fund. Whether or not the Halcyon Cemetery is required to establish this fund is undetermined at this time. However, the applicant has noted in their narrative that they intend to utilize a percentage of funds from every burial and interment to pay a permanent care and maintenance fund, which would be established and run by the cemetery association. The narrative notes that this fund will be in compliance with State Statutes. According to the applicant, this fund would be utilized to care for the grounds and complete capital projects and improvements to the cemetery.

REVIEW AND ANALYSIS

City Staff has reviewed the proposed preliminary and final plat for the Halcyon Cemetery. It should be noted that the applicant chose to wait to submit the plat application until the Valley Branch Watershed Permit was approved and issued, which occurred on June 25th, 2015. During the course of these review, staff has evaluated the proposed plans according to City ordinances and engineering standards. In completing the review, there are some elements of the plat that remain in conflict with City, County or Valley Branch Watershed District standards, which must still be addressed or corrected by the applicant. In general, the proposed plat will meet all applicable City requirements for conditional approval, and any deficiencies or additional work that is needed is noted as part of the review record.

The City has received a detailed list of comments from the City Engineer, Fire Chief and Washington County concerning the proposed cemetery, all of which are attached for consideration by the Commission.

In addition to the general comments that have been provided in the preceding sections of this report, Staff would like the Planning Commission to consider the issues and comments related to the following discussion areas as well:

- **Comprehensive Plan.** The proposed subdivision is consistent with the Lake Elmo Comprehensive Plan for this area. The subject property is guided Rural Area Development (RAD), which correlates to Agricultural and Rural Residential land uses. Under the Comprehensive Plan, cemetery use is not in conflict with this land use guidance.

- **Zoning.** The zoning of the subject property is Rural Residential (RR). Under this zoning designation, cemeteries are a permitted use according to the Zoning Code.
- **Subdivision Requirements.** The City's Subdivision Ordinance details the process for platting and other pertinent design standards. The majority of the standards are not applicable as the parcel is not being subdivided in the manner that is typical of other development. Staff, as well as the City Engineer, have not identified any existing conflicts with the City's Subdivision Ordinance. However, staff has found that additional public right-of-way may need to be provided on both 50th Street and Lake Elmo Avenue. The requirements to provide public right-of-way is found in the Subdivision Ordinance.
- **Infrastructure.** No public infrastructure is proposed to be constructed as part of the cemetery use. The wastewater facilities will be private. The existing home will be connected to the City water system via a water service. In addition, the Fire Chief will be requesting a hydrant to be located on the property. Nevertheless, the water line and hydrant will be privately owned and maintained. Finally, the storm water management facilities will also be privately owned and maintained. The City will require the landowner or association to enter into a maintenance agreement for the storm water facilities.
- **Wetlands.** The landowner has completed a wetland delineation as part of the permitting process for the Valley Branch Watershed. The applicant will be required to meet all the rules and regulations of the Wetland Conservation Act and Valley Branch Watershed District (Condition #3).
- **Landscaping.** Staff has reviewed the landscape plan submitted by the applicant and found the plan to be in general conformance with the City's ordinance. However, the applicant must provide 6 additional new trees to meet the City's quantity standards. Aside from this issue, the plant material provided meets the City standards for variety and plant size. It should also be noted that the applicant is proposing to transplant many of the existing trees on the site. In combination with the new plant material, there should be a fairly significant amount of landscaping on the 10-acre site. Staff was unable to have the plan reviewed by a registered Landscape Architect prior to consideration by the City. Therefore, Staff would recommend that the plan be reviewed for final approval prior to the installation of the plant material on the site. Finally, it should be noted that the City Engineer has identified some areas where plant material or trees are located on top of proposed utilities. The Landscape Plan should be revised to provide separation between the proposed utilities and plant material. These recommendations are included in a recommended condition of approval (Condition #5).
- **Tree Preservation Plan.** Staff has reviewed the Tree Preservation Plan and found it to be in conformance with the City's regulations pertaining to tree preservation for sites undergoing development activity. The total number of caliper inches on the site according to the survey is 1,550 caliper inches of significant trees. According to the Tree Preservation Ordinance, an applicant is allowed to remove 30% of significant trees on the site before tree replacement schedule is initiated. 30% of 1,550 total caliper inches is 465 caliper inches. The applicant is proposing to remove 340 caliper inches of significant trees, which is below the threshold for tree replacement. It should be noted that the applicant is proposing to transplant a significant amount of existing trees on the site to install mature plantings from an early point. Under the Tree Preservation Ordinance, transplanted trees do not count towards the total tree removals.

Staff finds the submitted tree preservation plan to be in conformance with the City's ordinance.

- Off-Street Parking.** The proposed site plan for the cemetery shows 58 parking stalls. The City's Off-Street Parking Ordinance (§154.210) includes the required number of off-street parking stalls for various uses. As for cemeteries, the ordinance does not provide concrete direction, but rather states that parking should be provided in an amount determined by the Planning Director. Planning staff has reviewed the overall amount of parking on the plan and found it to be more than adequate. The amount of parking provided in the southern parking lot should prevent cars from parking on 50th Street or Lake Elmo Ave., both of which are currently designated no parking. Should an overflow parking be necessary, it is likely it could be accommodated within the various drive lanes that circulate the cemetery. In the judgment of staff, the amount of parking provided is more than adequate. Finally, it should be noted that the parking stall dimensions meet the City's minimum standards per the ordinance.
- City Engineer Review.** The City Engineer has completed a review of the proposed cemetery and submitted his review comments in a memorandum dated July 8, 2015. With regards to the plat, he notes that 50th Street North is a major collector road, requiring 80 total feet of right-of-way. The plat currently shows 35 feet granted on the north side of 50th Street. He is requesting an additional 5 feet to establish the correct amount of right-of-way for collector roads. In addition, he is requesting additional right-of-way at the intersection to accommodate the sight line triangle. Finally, he is also requesting that a 10-foot drainage and utility easement be provided on the southern property line. This additional right-of-way and easement should not impact the proposed improvements on the site. Should any improvement be located in the drainage and utility easement, an easement encroachment agreement may be approved to allow fencing and other such improvements to be located there. In addition to the review comments on right-of-way, the engineer is requiring that the storm water management system be owned and maintained privately. The storm water facilities have not been designed to meet City standard. These facilities must be owned, operated and maintained privately. The City will expect a maintenance agreement to ensure proper operation of the facilities. Finally, the City Engineer has also noted several revisions and additions to the Construction Plan sheets. These review comments are mostly detail and plan notes that provide greater accuracy and clarity on the plans. Staff is recommending that the Engineer's review comments be adopted as a condition of approval (Condition #2). These modifications should be completed prior to the City executing the Final Plat.
- Fire Department Review.** The Fire Chief has reviewed the proposed cemetery and identified some areas of further review. One request included additional information about the location of hydrants on the property. In addition, the Fire Chief is requesting additional information related to the movement of emergency vehicle on the site. Staff is recommending that the concerns identified by the Fire Chief be addressed prior to the issuance of grading or building permits (Condition #7)
- Washington County Review.** County Staff has reviewed the cemetery plat and responded with a review memorandum dated July 7, 2015. Within the memo, County staff correctly notes that the amount of public right-of-way for Lake Elmo Ave. shown on the final plat is insufficient. In order to address this deficiency, an additional 25 feet must be provided. Staff is confident that the additional amount of right-of-way requested can be accommodated, as the Final Construction Plans include the correct amount of right-of-way, while the plat does

not. In other words, the additional right-of-way should not result in redesign of the site. In addition to the right-of-way issue, County staff notes that a right-of-way permit will be needed for the removal of the driveway and grading work associated with the retaining wall. In addition, the applicant must submit drainage calculations to review downstream impacts in the County ditch. Staff is recommending that all requirements and modifications identified in the County review memorandum be adopted as a condition of approval (Condition #4).

- ***Watershed District Review.*** The project area lies within the Valley Branch Watershed District (VBWD). The Valley Branch Watershed District reviewed the proposed cemetery at their June 25th meeting. At the meeting, the Valley Branch Board of Managers approved the permit for the cemetery with several conditions (see Attachment #7). It should be noted that the applicant must meet all the rules of the Wetland Conservation Act and the conditions of the VBWD permit. Staff is recommending a condition of approval (Condition #3) that these requirements be fulfilled.

Based on the above Staff report and analysis, Staff is recommending approval of the preliminary plat with 8 conditions intended to address the outstanding issues noted above and to further clarify the City's expectations in order for the developer to move forward with a final plat. The recommended conditions are as follows:

Recommended Conditions of Approval:

- 1) The applicant shall revise the Final Plat to accommodate all required right-of-way on Lake Elmo Avenue and 50th Street North as documented in review memorandums submitted by Washington County and the City Engineer.
- 2) All required modifications to the plans as requested by the City Engineer in a review letter dated July 8, 2015 shall be incorporated into the plans prior to the City's execution of the Final Plat.
- 3) The developer shall follow all of the rules and regulations spelled out in the Wetland Conservation Act, and abide by all conditions of approval established in the approved Valley Branch Watershed District permit.
- 4) The applicant shall be responsible to address all review comments submitted by Washington County described in the review memorandum received from the County dated July 7, 2015. In addition, the applicant shall obtain all necessary right-of-way permitting from Washington County.
- 5) The Landscape Plan shall be revised to include 6 additional trees to fulfill the City's Landscaping Requirements. In addition, the plant material that is on top of utilities shall be moved to comply with the direction of the City Engineer per his memorandum dated July 8, 2015. Finally, prior to installation of plant material, the plan shall be reviewed by the City's Landscape Consultant for final approval.
- 6) The applicant must enter into an agreement with the City to own, operate and maintain the private storm water facilities on the property. The storm water maintenance agreement must be recorded with the Final Plat.

- 7) Prior to the issuance of grading/building permits, all review comments of the Fire Chief must be addressed by the applicant.
- 8) The applicant shall obtain the necessary permitting from Washington County to install a new septic system to serve the property prior to the City issuing and building permits for the remodel of the home.

DRAFT FINDINGS

Staff is recommending that the Planning Commission consider the following findings with regards to the proposed Halcyon Cemetery Final Plat:

- That the Halcyon Cemetery Final Plat is consistent with the Lake Elmo Comprehensive Plan and the Future Land Use Map for this area.
- That the Halcyon Cemetery complies with the City's RR – Rural Residential zoning district.
- That the Halcyon Cemetery complies with the City's subdivision ordinance.
- That the Halcyon Cemetery Final Plat meets other City zoning ordinances, such as landscaping, tree preservation, erosion and sediment control, off-street parking and other ordinances, except where noted in this report herein.
- That the Halcyon Cemetery Final Plat is consistent with the City's engineering standards, except where noted, provided the plans are updated to address the City Engineer's comments documented in a letter dated July 8, 2015.

RECOMMENDATION:

Staff recommends that the Planning Commission recommend approval of the Halcyon Cemetery Final Plat with the 8 conditions of approval as listed in the Staff report. Suggested motion:

“Move to recommend approval of the Halcyon Cemetery Final Plat with the 8 conditions of approval as drafted by Staff based on the findings of fact listed in the Staff Report.”

ATTACHMENTS:

1. Location Map
2. Application Forms and Narrative
3. Preliminary and Final Plat and Plans
4. City Engineer Review Memorandum, dated 7/8/15
5. Fire Chief Review Memorandum, dated 7/7/15
6. Washington County Review Memorandum, dated 7/7/15
7. Valley Branch Watershed District Permit
8. Lake Elmo Transportation Plan, Existing and Projected Traffic Volumes
9. Cemetery Proximity and Single Family Home Price Report (1st Half)

INCLUDED IN THE ELECTRONIC PACKET BUT NOT PROVIDED IN HARD COPY:

- 1. 2nd Half of Cemetery Proximity and Single Family Home Price Report – Supporting Data
- 2. Information Handout About Cemeteries from League of Minnesota Cities

ORDER OF BUSINESS:

- IntroductionPlanning Staff
- Report by StaffPlanning Staff
- Questions from the Commission Chair & Commission Members
- Open the Public HearingChair
- Close the Public Hearing.....Chair
- Discussion by the Commission Chair & Commission Members
- Action by the Commission..... Chair & Commission Members



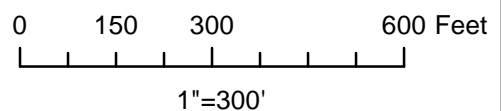
Location Map: Proposed Halcyon Cemetery



Data Source: Washington County, MN
11-17-2014



11050 50th Street N.



Date Received: _____
Received By: _____
LU File #: _____



651-747-3900
3800 Lavene Avenue North
Lake Elmo, MN 55042

PRELIMINARY PLAT APPLICATION

Applicant: LEE ROSSOW
Address: 1870 RICE STREET
Phone #: 651-308-3999
Email Address: 337 @ LACH.NET

Fee Owner: SAME
Address: _____
Phone #: _____
Email Address: _____

Property Location (Address and Complete (long) Legal Description: _____
11050 50TH STREET N

General information of proposed subdivision: _____
CEMETERY

Conducted pre-application meeting with Staff? ☒ Yes ☐ No

In signing this application, I hereby acknowledge that I have read and fully understand the applicable provisions of the Zoning Ordinance and current administrative procedures. I further acknowledge the fee explanation as outlined in the application procedures and hereby agree to pay all statements received from the City pertaining to additional application expense.

Signature of applicant: Lee Rossow Date: 2-8-2015

Signature of Fee Owner: SAME Date: _____

Date Received: _____
Received By: _____
LU File #: _____



651-747-3900
3800 Laverne Avenue North
Lake Elmo, MN 55042

FINAL PLAT APPLICATION

Applicant: LEE ROSSOW
Address: 1870 RICE STREET
Phone #: 651-308-2999
Email Address: 332 Q LACH, NET

Fee Owner: SAME
Address: _____
Phone #: _____
Email Address: _____

Property Location (Address and Complete (long) Legal Description: _____

11050 50TH STREET N

General information of proposed subdivision: _____

C E M E T E R Y

In signing this application, I hereby acknowledge that I have read and fully understand the applicable provisions of the Zoning Ordinance and current administrative procedures. I further acknowledge the fee explanation as outlined in the application procedures and hereby agree to pay all statements received from the City pertaining to additional application expense.

Signature of applicant: Lee Rossow Date: 2-8-2015

Fee Owner Signature _____ Date: _____



Lake Elmo City Hall
651-747-3900
3800 Laverne Avenue North
Lake Elmo, MN 55042

AFFIRMATION OF SUFFICIENT INTEREST

I hereby affirm that I am the fee title owner of the below described property or that I have written authorization from the owner to pursue the described action.

Name of applicant LEE ROSSOW
(Please Print)

Street address/legal description of subject property 11050 50TH STREET N

Lee Rossow
Signature

OCTOBER 30, 2014
Date

If you are not the fee owner, attach another copy of this form which has been completed by the fee owner or a copy of your authorization to pursue this action.

If a corporation is fee title holder, attach a copy of the resolution of the Board of Directors authorizing this action.

If a joint venture or partnership is the fee owner, attach a copy of agreement authorizing this action on behalf of the joint venture or partnership.



Lake Elmo City Hall
651-747-3900
3800 Laverne Avenue North
Lake Elmo, MN 55042

ACKNOWLEDGEMENT OF RESPONSIBILITY

This is to certify that I am making application for the described action by the City and that I am responsible for complying with all City requirements with regard to this request. This application should be processed in my name and I am the party whom the City should contact regarding any matter pertaining to this application.

I have read and understand the instructions supplied for processing this application. The documents and/or information I have submitted are true and correct to the best of my knowledge. I will keep myself informed of the deadlines for submission of material and of the progress of this application.

I understand that this application may be reviewed by City staff and consultants. I further understand that additional information, including, but not limited to, traffic analysis and expert testimony may be required for review of this application. I agree to pay to the City upon demand, expenses, determined by the City, that the City incurs in reviewing this application and shall provide an escrow deposit to the City in an amount to be determined by the City. Said expenses shall include, but are not limited to, staff time, engineering, legal expenses and other consultant expenses.

I agree to allow access by City personnel to the property for purposes of review of my application.

Signature of applicant Lee Rossow Date OCTOBER 30, 2014

Name of applicant LEE ROSSOW Phone 651 308 2999
(Please Print)

Name and address of Contact (if other than applicant) _____

E-MAIL 337 @ LACH. NET

February 16, 2015

Lee Rossow
Halcyon, GLCJ Properties, LLC, Rossow, INC
1870 Rice Street
St. Paul, MN 55113

Nick Johnson
City of Lake Elmo
3800 Laverne Ave North
Lake Elmo, MN. 55042

Dear Nick Johnson,

The following narrative is in response to the Final Plat Application Requirements.

Item 1: Submitted with the proper fees on January 9, 2015.

Item 2: Sub a. Contact. Lee Rossow, 1870 Rice Street. (651) 308 – 2999, email – 337@lach.net.
Architect. William Sanders at LOUCKS

Sub b. Halcyon at 11050 50th Street North, 10 acres, Rural Residential, 435,600 sq. feet.

Sub c. i. HALCYON

iv. Wetland cannot be exactly determined until May, 2015. The area where the proposed wetland is located is in the phase II construction area which will not be touched until after the exact delineation is completed.

v. There are no dedicated rights of way within the property boundaries. There is a discussion with the County and right of way along Lake Elmo Ave. 25 feet

vi. The general legal descriptions of the burial locations are listed on the plans.

Sub d. Issues discussed after the sketch plan review: Park dedication and water assessment. Open issues are right of Way on Lake Elmo Ave. and the wetland delineation. Discussed in iv. v.

Sub f. All of the site work during the first building season, except that which is deemed necessary by the V.B.W.D. will be confined to the western 400 feet of the parcel. Including parking, sidewalks, storm sewer, mausoleums, columbariums, structure modifications and landscaping.

Sub g. Issues raised by one of the neighbors were addressed at the sketch plan meetings.

Sub h. At this time I am unaware of any issues with the neighbors.

Sub i. Halcyon will develop into a serene park like setting with minimal impact the community. Traffic will be accommodated entirely on site. Any funeral processions will enter the property and be accommodated on the property.

Sub I. We intend to start as soon as our plans are approved. We will work on phase 1 during this building season and phase II probably in 2016. Target date to be operational is August 2015.

Item 1. Administrative Information.

Sub 14. Labels with addresses of adjacent property owners were secured from Washington County and delivered to you on January 12, 2015.

Item 3. Final grading. Signed copies. Once the Engineers and the Watershed agree on the details, freshly signed plans will be resubmitted to your office.

Item 12. Spot elevations. I talked to Bill Sanders about including this on the plan if not already there.

Item 17. Phasing plan. As discussed the phase 1 and phase 2 areas on the erosion control plan will be clearly identified.

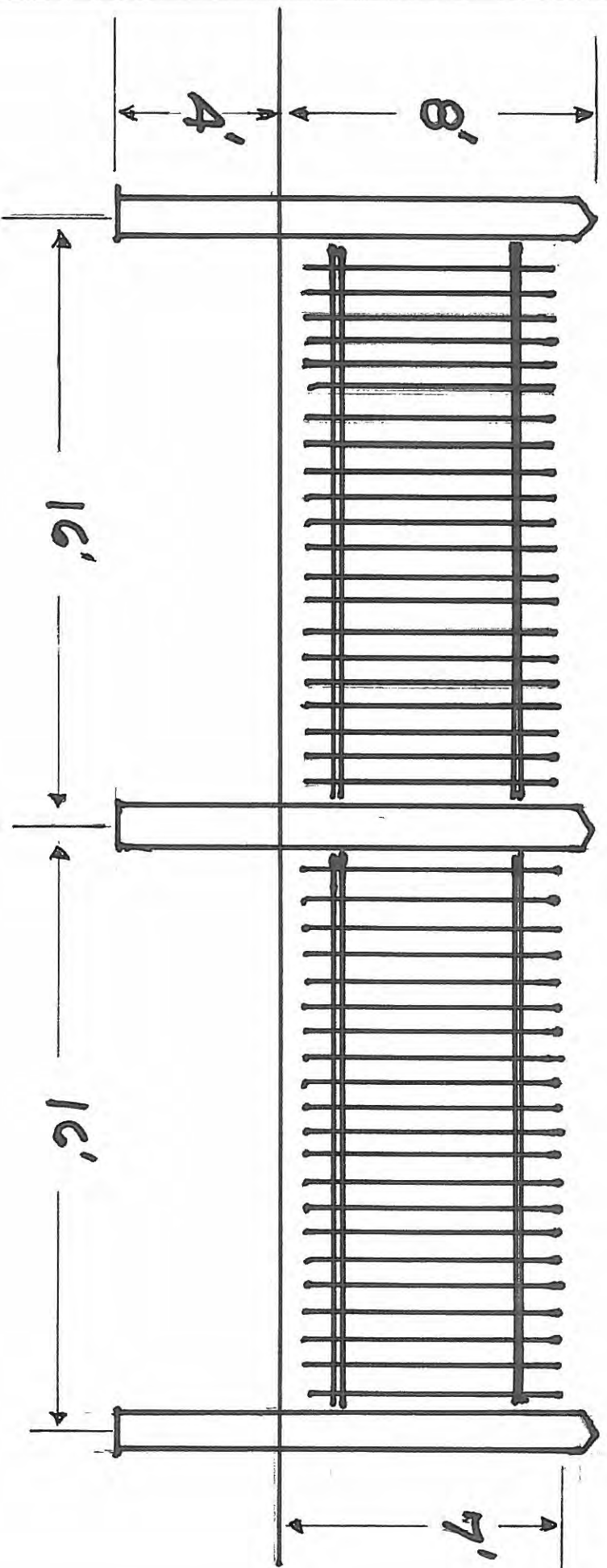
Other topics:

Care and Improvement: In compliance with Minnesota Statute 306.37, 306.41, 306.731, 20% of every burial lot and 10% of every mausoleum or columbarium space shall be paid to a permanent trust fund for the care, maintenance and improvement of the cemetery.

Public Service Agreement. I'm at a loss to make a suggestion because the City doesn't currently have any public service agreements with the other three cemeteries or religious organizations.



Lee Rossow



HALCYON FENCE DETAIL

12' CONCRETE POSTS

2-24-2015

15' SPAN STEEL SECTIONS

By LEE ROSSOW

HALCYON

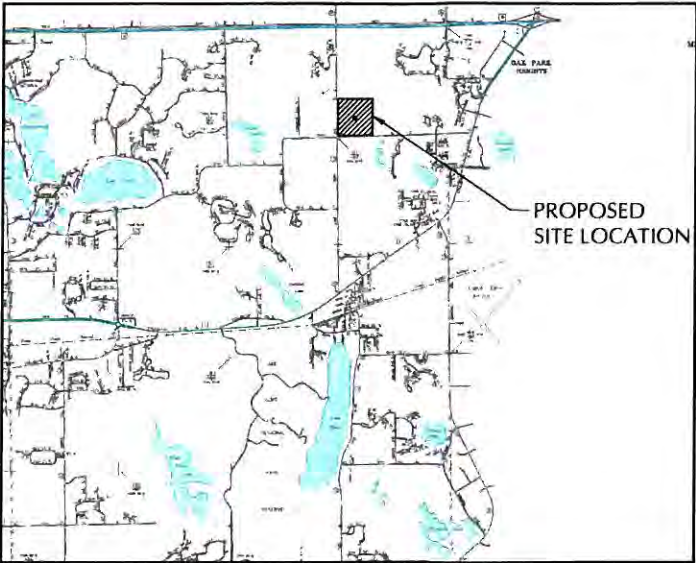
LAKE ELMO, MINNESOTA

PLANS FOR:
CEMETERY BURIAL LOCATIONS, PARKING, GRADING &
DRAINAGE, UTILITIES AND LANDSCAPE

SHEET INDEX

- C0-1 COVER SHEET
- C1-1 EXISTING CONDITIONS / REMOVALS
- C2-1 SITE LAYOUT PLAN
- C3-1 GRADING & DRAINAGE PLAN
- C3-2 EROSION CONTROL PLAN
- C5-1 PRELIMINARY PLAT
- C8-1 CIVIL DETAILS
- C8-2 CIVIL DETAILS
- C8-3 CIVIL DETAILS
- L1-0 TREE PRESERVATION PLAN
- L2-0 LANDSCAPING PLAN
- L2-1 LANDSCAPING DETAILS

VICINITY MAP



EXISTING	CIVIL LEGEND	PROPOSED
	SANITARY MANHOLE	
	STORM MANHOLE	
	CATCH BASIN	
	CULVERT	
	HYDRANT	
	GATE VALVE	
	POST INDICATOR VALVE	
	LIGHT POLE	
	POWER POLE	
	SIGN	
	BENCHMARK	
	SOIL BORING	
	WATER MANHOLE	
	TELEPHONE MANHOLE	
	UTILITY MANHOLE	
	ELECTRIC MANHOLE	
	WATER SERVICE	
	SANITARY SERVICE	
	HANDICAP PARKING	
	DIRECTION OF FLOW	
	SPOT ELEVATION	
	CONTOURS	
	SANITARY SEWER	
	STORM SEWER	
	WATERMAIN	
	FOREMAN	
	DRAIN TILE	
	SALT FENCE	
	CURB & GUTTER	
	RETAINING WALL	
	TREE LINE	
	EASEMENT LINE	
	SETBACK LINE	
	FENCE LINE	
	UNDERGROUND TOLE	
	UNDERGROUND GAS	
	OVERHEAD UTILITY	

DESIGN CONSULTANTS

LANDSCAPE ARCHITECT
LOUCKS ASSOCIATES
365 E. KELLOGG BLVD.
ST. PAUL, MINNESOTA 55101

BILL SANDERS
TEL: 763-496-6784

CIVIL ENGINEER
LOUCKS ASSOCIATES
365 E. KELLOGG BLVD.
ST. PAUL, MINNESOTA 55101

VICKI VANDELL
TEL: 763-496-6720

WARNING:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND / OR RELOCATION OF LINES.

THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL AT 651-454-0002 AT LEAST 48 HOURS IN ADVANCE FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.



CALL BEFORE YOU DIG

Gopher State One Call

TWIN CITY AREA: 651-454-0002
TOLL FREE: 1-800-252-1166

Project Name:

HALCYON

11050 50th St. N.
Lake Elmo, MN 55042

halcyoncemetry.com

Owner/Developer:

GLCJ Properties, Inc.
Lee Rossow
1870 Rice St.
Roseville, MN 55113
651-308-2999
337@lach.net

Professional Services:

LOUCKS
ASSOCIATES

Planning • Civil Engineering • Land Surveying
Landscape Architecture • Environmental

7200 Hennock Lane - Suite 300
Maple Grove, MN 55369
Telephone: (763) 424-5505
www.LoucksAssociates.com

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14530 C0-1 COVER SHEET.DWG/Cover

03/04/15 Revised City Submittal
05/14/15 Watershed Submittal
06/17/15 Final City Submittal

Professional Signature:

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Landscape Architect under the laws of the State of Minnesota.

William D. Sanders

12335

6/17/15

License No.

Date

Quality Control:

Project Lead: WS Drawn By: GAJ
Checked By: WS Review Date: 06/17/15

C0-1 COVER SHEET / PROJECT LOCATION
C1-1 EXISTING CONDITIONS & REMOVALS
C2-1 SITE LAYOUT PLAN
C3-1 GRADING & DRAINAGE PLAN
C3-2 EROSION CONTROL PLAN
C4-1 UTILITY PLAN
C5-1 PRELIMINARY PLAT
C8-1, C8-2 CIVIL DETAILS
L1-0 TREE PRESERVATION PLAN
L2-0 LANDSCAPING PLAN
L2-1 LANDSCAPING DETAILS

Sheet Title:

COVER SHEET

Project No.:

14530

Sheet No.:

C0-1

Preliminary Plat of: HALCYON

PRELIMINARY PLAT GENERAL NOTES

SURVEYOR:
Loucks Associates, Inc.
7200 Hemlock Lane, Suite 300
Maple Grove, MN 55330
763-424-5505

OWNER/DEVELOPER:
GLCJ Properties, LLC
1870 Rice Street
Roseville, MN 55113
651-308-2999

LEGAL DESCRIPTION:
The South 660 feet of the West 660 feet of the Southwest Quarter of the Southwest Quarter, Section 1, Township 29 North, Range 21 West, Washington County, Minnesota.

DATE OF PREPARATION:
February 27, 2015

BENCHMARK:
Top nut of hydrant located at the northeast corner of Lake Elmo Avenue and 50th Street North as shown. Elev. = 933.90 (NAVD88)

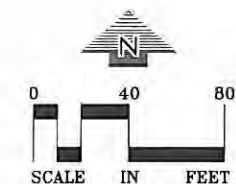
EXISTING ZONING:
Zone RR (Rural Residential)

PROPOSED ZONING:
Zone RR (Rural Residential)

AREAS:
Total Property Area = 435,638 Sq.Ft. or 10.00 Acres
Right of way Dedication Area = 54,354 Sq.Ft. or 1.25 Acres
Net Property Area = 381,284 Sq.Ft. or 8.75 Acres

PROPOSED BUILDING SETBACKS:
Front = 30 Feet
Side (Corner) = 25 Feet
Side (Interior) = 10 Feet
Rear = 40 Feet

FLOOD ZONE DESIGNATION:
This property is contained in Zone X (areas determined to be outside the 0.2% annual chance floodplain) per Flood Insurance Rate Map, Community Panel No. 27163C0245E, effective date of February 3, 2010.



0 DENOTES 1/2 INCH X 14 INCH IRON MONUMENT SET, MARKED "RLS 17255"

■ DENOTES IRON MONUMENT FOUND

HORIZONTAL DATUM IS BASED ON WASHINGTON COUNTY COORDINATES

SURVEY LEGEND

AS ASH	☼ CATCH BASIN	— STORM SEWER
BO BOXELDER	⊙ STORM MANHOLE	— WATERMAIN
CO COTTONWOOD	⊙ WATER WELL	— CULVERT
OA OAK	⊙ HYDRANT	— UNDERGROUND ELECTRIC
SP SPRUCE	⊙ GATE VALVE	— GAS UNDERGROUND GAS
BI TWIN TREES	⊙ LIGHT POLE	— UNDERGROUND TELEPHONE
TC TOP OF CURB	⊙ MAIL BOX	— CHAIN LINK FENCE
THSD THRESHOLD	⊙ GUARD POST	— WOOD FENCE
	⊙ SIGN	— CONCRETE CURB
	⊙ SPOT ELEVATION	— CONCRETE
	⊙ A/C UNIT	— CONTOUR
	⊙ TELEPHONE PEDESTAL	☼ CONIFEROUS TREE
	⊙ ELECTRIC METER	☼ DECIDUOUS TREE
	⊙ GAS METER	

Project Name

11050
50th Street North

Lake Elmo, Minnesota

Owner/Developer

GLCJ Properties, LLC

1870 Rice Street
Roseville, MN 55113

Professional Services:

LOUCKS ASSOCIATES

Planning • Civil Engineering • Land Surveying
Landscape Architecture • Environmental

7200 Hemlock Lane - Suite 300
Maple Grove, MN 55369
Telephone: (763) 424-5505
www.loucksassociates.com

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S14530-MASTER.DWG/PREPLAT

Revisions:

02-27-15 Drawing Issued

Professional Signature:

I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly Licensed Land Surveyor or under the laws of the State of Minnesota.

Richard L. Licht - PLS

26724 February 27, 2015
License No. Date

Quality Control:

Project Lead: RLL Drawn By: SFH

Checked By: Review Date:

Vicinity Map:



Sheet Title:

Preliminary
Plat

Project No.

14-530

Sheet No.

C5-1

KNOW ALL PERSONS BY THESE PRESENTS: That GLCJ Properties, LLC, a Minnesota limited liability company, owner of the following described property situated in the County of Washington, State of Minnesota, to wit:

The South 660 feet of the West 660 feet of the Southwest Quarter of the Southwest Quarter, Section 1, Township 29 North, Range 21 West.

Has caused the same to be surveyed and platted under Minnesota Statute 307.01 as HALCYON, and do hereby donate and dedicate to the public the thoroughfares as shown hereon.

In witness whereof said GLCJ Properties, LLC, a Minnesota limited liability company has caused these presents to be signed by its proper officer this _____ day of _____, 201_____

GLCJ PROPERTIES, LLC

By _____

its _____

State of _____
County of _____

This instrument was acknowledged before me this _____ day of _____, 201_____ by _____ of GLCJ Properties, LLC, a Minnesota limited liability company, on behalf of the company.

(Signature)

(Printed Name)
Notary Public _____ County, _____
My Commission Expires January 31, 20____

SURVEYORS CERTIFICATION

I, Richard L. Licht, do hereby certify that I have surveyed and platted the property described on this plat under Minnesota Statute 307.01 as HALCYON, that this is a correct representation of the survey; that all distances are correctly shown on the plat in feet and hundredths of a foot; that all monuments have been correctly placed in the ground as shown; that the outside boundary lines are correctly designated on the plat.

Dated this _____ day of _____, 201_____

Richard L. Licht, Licensed Land Surveyor
Minnesota License No. 26724

State of Minnesota
County of Hennepin

This instrument was acknowledged before me this _____ day of _____, 201_____ by Richard L. Licht, a Licensed Land Surveyor.

(Signature)

(Printed Name)
Notary Public Hennepin County, Minnesota
My Commission Expires January 31, 2020

LAKE ELMO PLANNING COMMISSION

Approved by the Planning Commission of the City of Lake Elmo, Minnesota, this _____ day of _____, 201_____

By _____

Chair

By _____

Secretary

COUNTY SURVEYOR

I certify that this plat has been checked mathematically and approved the _____ day of _____, 201_____.

By _____

Washington County Surveyor

COUNTY AUDITOR/TREASURER

There are no delinquent taxes, the current taxes due are payable for the year _____ have been paid and transfer has been entered this _____ day of _____, 201_____.

By _____

Washington County Auditor/Treasurer

By _____

Deputy

COUNTY RECORDER, Washington County, Minnesota

I hereby certify that the within plat of HALCYON was recorded in this office this _____ day of _____, 201_____, at _____ o'clock ____M.

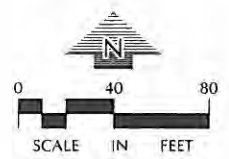
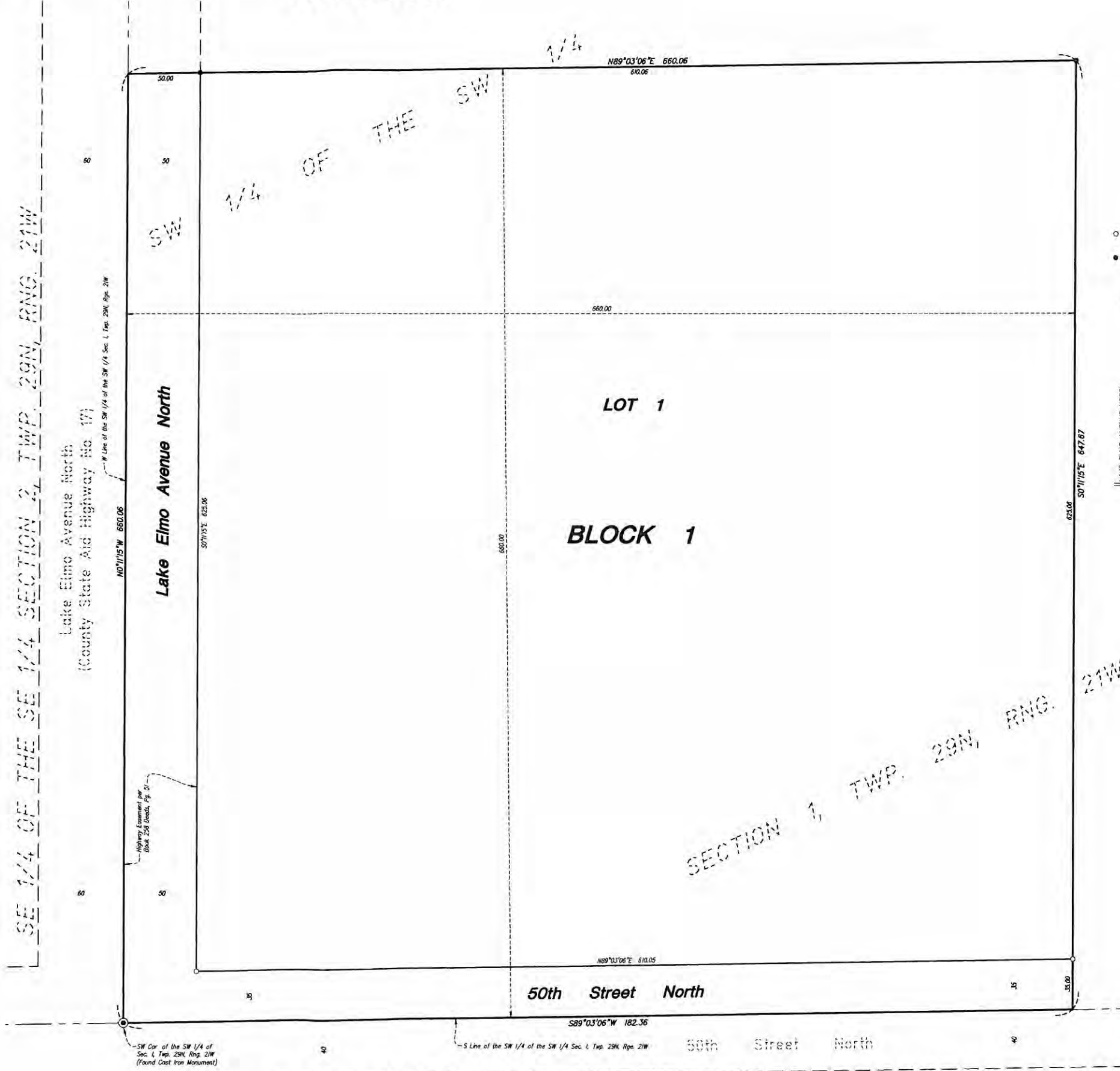
By _____

Washington County Recorder

By _____

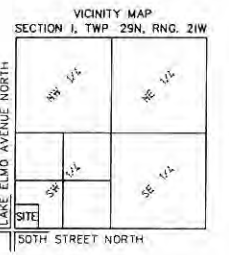
Deputy

HALCYON



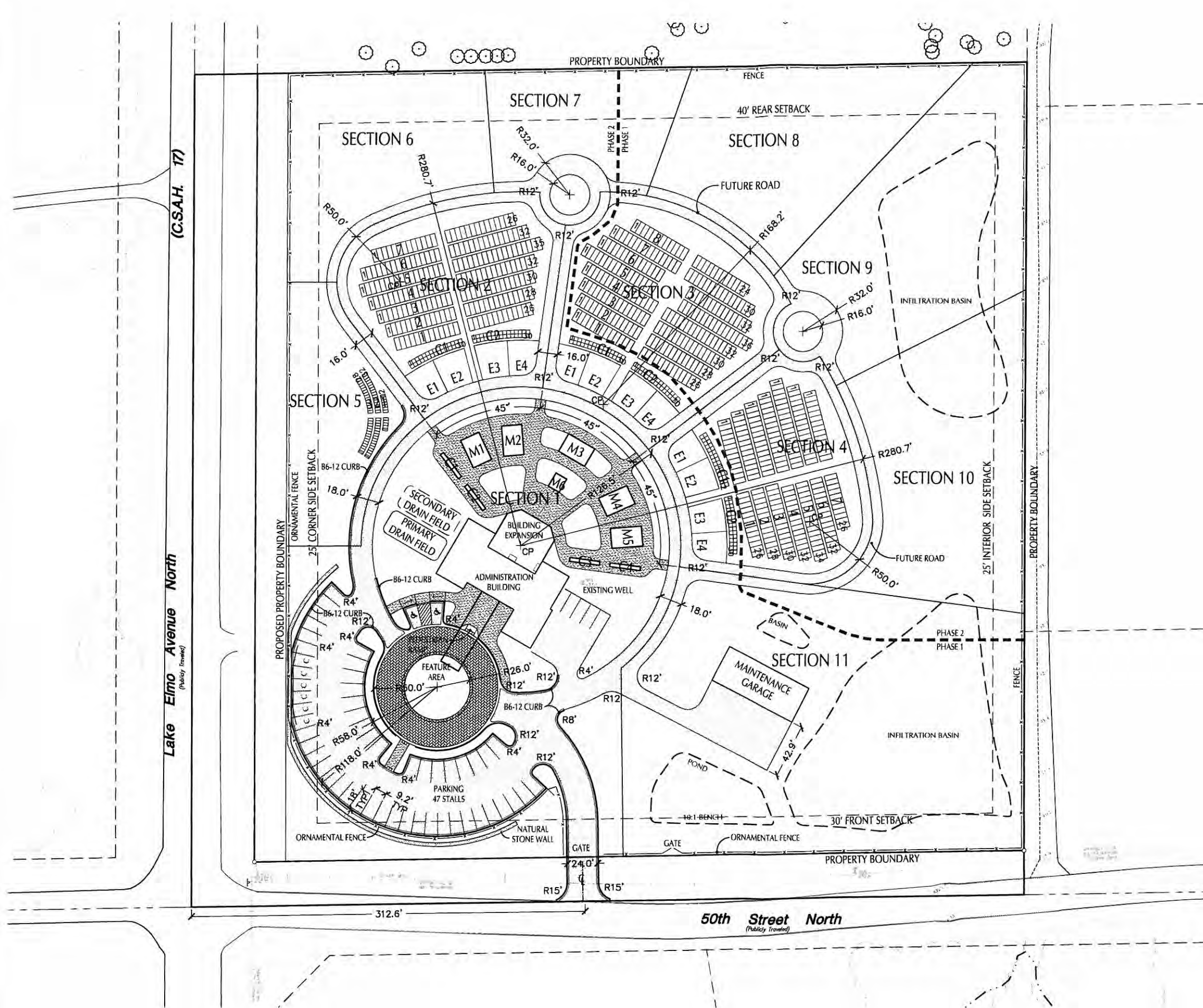
O DENOTES 1/2 INCH X 1/4 INCH IRON MONUMENT SET, MARKED "RLS 26724"
● DENOTES IRON MONUMENT FOUND

THE SOUTH LINE OF THE SW1/4 OF THE SW1/4 IS ASSUMED TO HAVE A BEARING OF S89°03'06"W



JOHN M DAY FARM ADDITION

LOUCKS ASSOCIATES



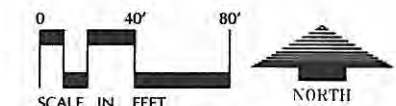
SITE LAYOUT PLAN:

LEGEND

- BITUMINOUS ROAD
- CONCRETE SURFACING
- PAVER SURFACING

BURIAL TOTALS

SECTION 1 -	MAUSOLEUM	322
	COLUMBARIUM	640
SECTION 2 -	IN-GROUND FULL	209
	IN-GROUND CREMATION	60
	ESTATE LOTS	48
SECTION 3 -	IN-GROUND FULL	209
	IN-GROUND CREMATION	60
	ESTATE LOTS	48
SECTION 4 -	IN-GROUND FULL	209
	IN-GROUND CREMATION	60
	ESTATE LOTS	48
SECTION 5 -	IN-GROUND INFANT	72
SECTION 6 -	FUTURE	
SECTION 7 -	FUTURE	
SECTION 8 -	FUTURE	
SECTION 9 -	FUTURE	
SECTION 10 -	FUTURE	
SECTION 11 -	FUTURE	
TOTAL		1985



Project Name

HALCYON
11050 50th St. N.
Lake Elmo, MN 55042

halcyoncemetery.com

Owner/Developer:

GLC Properties, Inc.
Lee Rossow
1870 Rice St.
Roseville, MN 55113
651-308-2999
337@lach.net

Professional Services:

LOUCKS ASSOCIATES

Planning • Civil Engineering • Land Surveying
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14530 C2-1 LAYOUT PLAN.DWG/Layout Plan

03/04/15	Revised City Submittal
05/14/15	Watermarked Submittal
06/17/15	Final City Submittal

Professional Signature:

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Landscape Architect under the laws of the State of Minnesota.

William D. Smider

24610 License No. 6/17/15 Date

Quality Control:

Project Lead: WS Drawn By: GAI

Checked By: WS Review Date: 06/17/15

CB-1	COVER SHEET / PROJECT LOCATION
CL-1	EXISTING CONDITIONS & REMOVALS
C2-1	SITE LAYOUT PLAN
CL-1	GRADING & DRAINAGE PLAN
CL-2	EROSION CONTROL PLAN
CL-3	UTILITY PLAN
CL-4	PRELIMINARY PLAT
CL-5	CIVIL DETAILS
CL-6	TREE PRESERVATION PLAN
CL-7	LANDSCAPING PLAN
CL-8	LANDSCAPING DETAILS

Sheet Title:

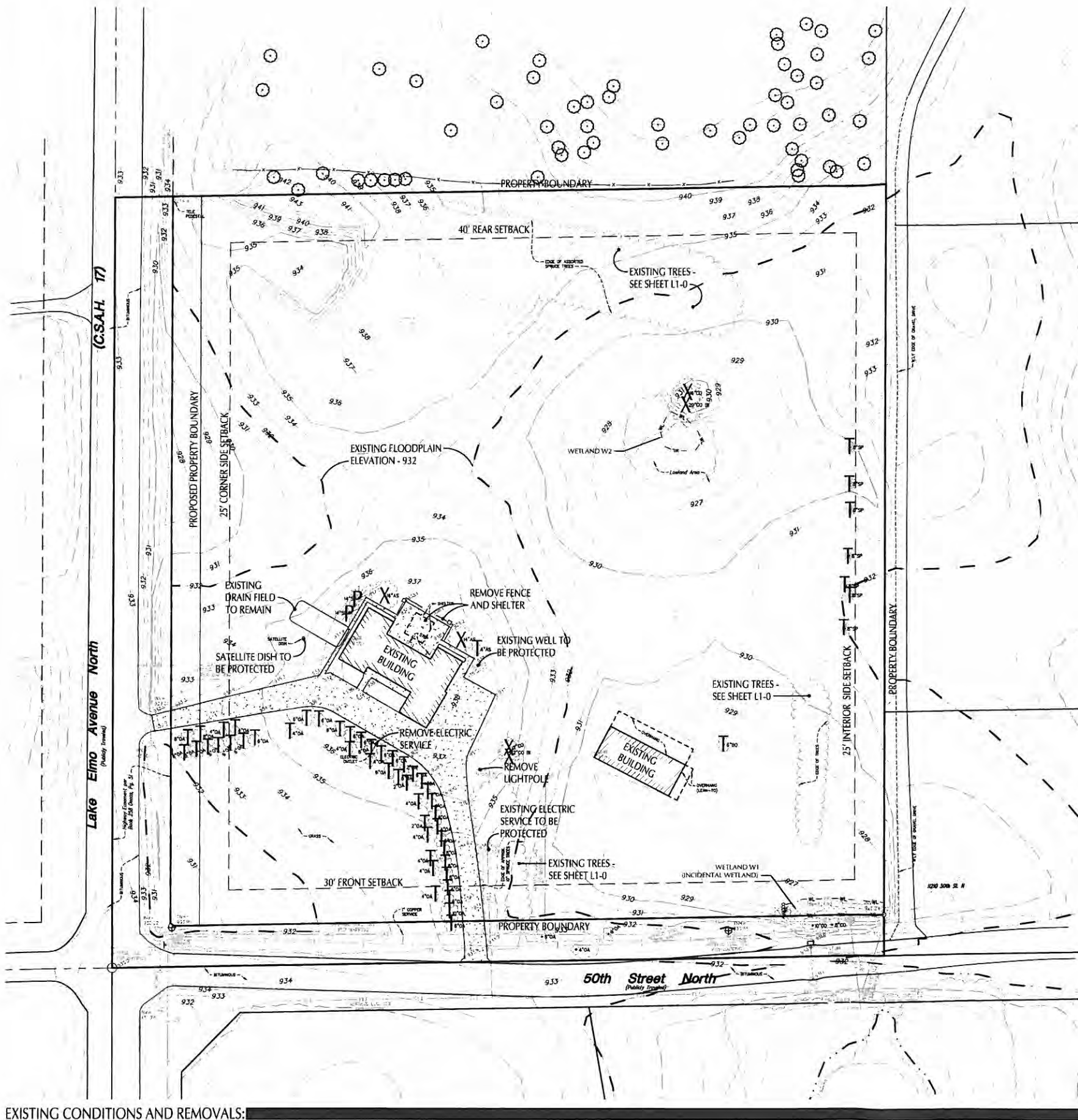
PRELIMINARY
SITE PLAN

Project No.

14530

Sheet No.:

C2-1



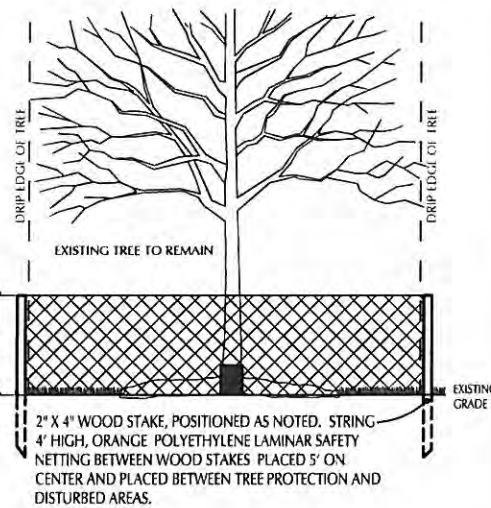
EXISTING CONDITIONS AND REMOVALS:

REMOVALS / SITE PREPARATION NOTES:

1. REFER TO SHEET C3-2 FOR EROSION CONTROL PLAN AND ADDITIONAL NOTES.
2. CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING BID. INSPECT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS RELATING TO THE NATURE AND SCOPE OF THE WORK.
3. ASSURE COMPLIANCE WITH ALL APPLICABLE CODES AND REGULATIONS GOVERNING THE WORK OR MATERIALS SUPPLIED.
4. PREVENT SOIL FROM WASHING INTO THE STORM SEWER. ALL SEDIMENT AND EROSION CONTROL MEASURES AS REQUIRED BY STATE AND LOCAL CODES SHALL BE INSTALLED PRIOR TO ANY DEMOLITION OR EARTHWORK ACTIVITIES.
5. LOCATION AND SIZES OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE AND ARE SHOWN BASED ON FIELD LOCATION OF VIEWABLE FIXTURES. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES WITH GOPHER ONE AND LOCAL UTILITY SERVICES. PROVIDE THE NECESSARY PROTECTION FOR EXISTING UTILITIES BEFORE CONSTRUCTION OR MATERIAL INSTALLATION BEGINS (MINIMUM 10' CLEARANCE).
6. NO CONSTRUCTION, DEMOLITION OR COMMERCIAL POWER MAINTENANCE EQUIPMENT SHALL BE OPERATED WITHIN THE CITY BETWEEN THE HOURS OF 6:00 PM AND 7:00AM ON WEEKDAYS OR DURING ANY HOURS ON SATURDAYS, SUNDAYS AND STATE AND FEDERAL HOLIDAYS, EXCEPT UNDER PERMIT.
7. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING SITE FEATURES TO REMAIN. ANY DAMAGE TO EXISTING SITE FEATURES SHALL BE REPORTED TO LANDSCAPE ARCHITECT AND OWNER PRIOR TO START OF CONSTRUCTION ACTIVITIES. ANY DAMAGE TO SAME SHALL BE REPAIRED AT NO COST TO THE OWNER.
8. LOCATIONS FOR STORING CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE COORDINATED WITH THE LANDSCAPE ARCHITECT.
9. ALL CONSTRUCTION AND POST-CONSTRUCTION PARKING SHALL BE AS DIRECTED BY THE OWNER. NO ON-STREET PARKING / LOADING / UNLOADING ALLOWED.
10. SEE SHEETS L1-0 AND L2-0 - FOR ADDITIONAL TREE REMOVAL / TRANSPLANT INFORMATION

LEGEND

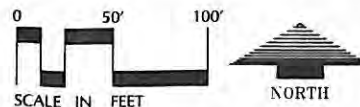
- EXISTING CONTOUR
- EXISTING DECIDUOUS TREE TO BE TRANSPLANTED
- EXISTING TREE TO BE PROTECTED - SEE 2/C1-1
- EXISTING TREE TO BE REMOVED
- CONCRETE SURFACE TO BE REMOVED



TREE PROTECTION NOTE:
INSTALL SNOW FENCE AROUND EACH TREE TO BE PROTECTED PRIOR TO GRADING. FENCE SHALL BE PLACED AT THE DRIP EDGE OR CRITICAL ROOT ZONES OF THE TREES. FENCING SHALL BE NO CLOSER THAN 6' TO THE TRUNK OF ANY TREE TO BE PROTECTED. THE PERIMETERS FOR TREES BEING PROTECTED SHALL BE DESIGNATED AT ALL TIMES DURING CONSTRUCTION ACTIVITY AND SIGNAGE SHALL BE INSTALLED AT ALL TREE PROTECTION AREAS THAT INSTRUCTS WORKERS TO STAY OUT. CONTRACTOR SHALL AVOID ALL AREAS WITHIN TREE PROTECTION FENCE. SOIL SHOULD BE PROTECTED FROM EROSION AND CHANGES IN CHEMISTRY FROM CONCRETE OR TOXIC MATERIALS SUCH AS FUELS AND PAINTS.

ALL DAMAGE TO TREES TO BE PROTECTED SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND LANDSCAPE ARCHITECT.

2 C1-1 TREE PROTECTION
SCALE: 1/2" = 1'-0"



CALL BEFORE YOU DIG
Gopher State One Call
TWIN CITY AREA: 651-454-0002
TOLL FREE: 1-800-252-1166

Project Name:

HALCYON
11050 50th St. N.
Lake Elmo, MN 55042

halcyoncemetery.com

Owner/Developer:

GLC Properties, Inc.
Lee Rossow
1870 Rice St.
Roseville, MN 55113
651-308-2999
337@lach.net

Professional Services:

LOUCKS ASSOCIATES

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14530 C1-1 REMOVALS.DWG/Removals

03/04/15	Revised City Submittal
05/14/15	Watershed Submittal
06/17/15	Final City Submittal

Professional Signature:

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Landscape Architect under the laws of the State of Minnesota.

William D. Smider

12335 License No. 6/17/15 Date

Quality Control:

Project Lead: WS Drawn By: CAJ
Checked By: Review Date: 06/17/15

C0-1	COVER SHEET / PROJECT LOCATION
C1-1	EXISTING CONDITIONS & REMOVALS
C2-1	SITE LAYOUT PLAN
C3-1	GRADING & DRAINAGE PLAN
C3-2	EROSION CONTROL PLAN
C4-1	UTILITY PLAN
C5-1	PRELIMINARY PLAN
C6-1 - C8-1	CIVIL DETAILS
L1-0	TREE PRESERVATION PLAN
L2-0	LANDSCAPING PLAN
L3-1	LANDSCAPING DETAILS

Sheet Title:

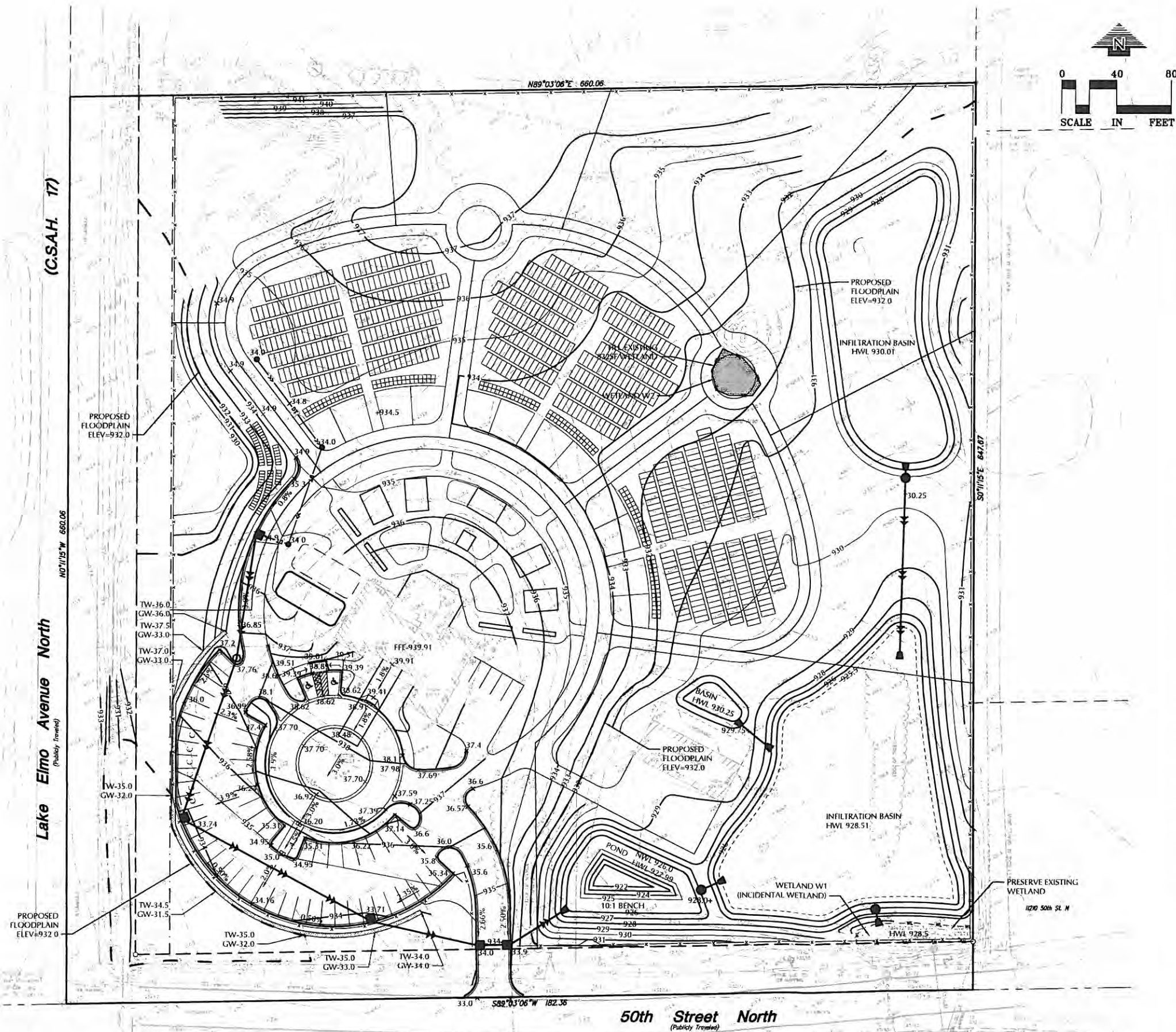
EXISTING CONDITIONS & REMOVALS

Project No.:

14530

Sheet No.:

C1-1



LEGEND	
EXISTING	PROPOSED
TOPOGRAPHIC CONTOUR	800
SPOT ELEVATION	X 800.0
DRAINAGE SLOPE	X.XX%
STORM SEWER	—+—+—+—
STORM MANHOLE	○
CATCH BASIN	●
SANITARY SEWER	—+—+—+—
WATERMAIN	—+—+—+—
BENCHMARK	⊕
EMERGENCY OVERTFLOW	—+—+—+—
CONSTRUCTION LIMITS	—+—+—+—

NOTE:
CATCH BASINS RIMS ARE 2 INCHES LOWER
THAN FLOW LINE ELEVATION.

NOTE:
SPOT ELEVATIONS AT CURB LINES INDICATE
BASE OF CURB AND GUTTER LINE (I.E. FLOW
LINE) ELEVATIONS UNLESS OTHERWISE NOTED.

GRADING PLAN NOTES

1. BACKGROUND INFORMATION IS BASED ON A FIELD SURVEY BY LOUCKS ASSOCIATES AND RECORD UTILITY DRAWINGS FROM THE CITY OF LAKE ELMO. LOUCKS ASSOCIATES DOES NOT GUARANTEE THE ACCURACY OF INFORMATION PROVIDED BY OTHERS.
2. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF BUILDINGS, VESTIBULES, SLOPED PAVING, EXIT PORCHES, RAMPS, TRUCK DOCKS, ENTRY LOCATIONS AND LOCATIONS OF DOWNSPOUTS.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASE OF THIS PROJECT. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGES TO ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASE OF THIS PROJECT.
4. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
5. BEFORE BEGINNING CONSTRUCTION THE CONTRACTOR SHALL INSTALL A TEMPORARY ROCK ENTRANCE PAD AT ALL POINTS OF VEHICLE EXIT FROM THE PROJECT SITE. SAID ROCK ENTRANCE PAD SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF THE PROJECT.
6. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE ESTABLISHED AROUND THE ENTIRE SITE PERIMETER AND IN ACCORDANCE WITH NPDES PERMIT REQUIREMENTS, BEST MANAGEMENT PRACTICES, AND CITY REQUIREMENTS.
7. ALL SPOT ELEVATIONS SHOWN REPRESENT FINISHED SURFACE OR GUTTER LINE ELEVATIONS UNLESS OTHERWISE NOTED.
8. CONTRACTOR TO VERIFY EXISTING INFORMATION PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY PLAN DISCREPANCIES.
9. EXISTING UTILITY LOCATIONS AS-PER CITY AS-BUILT PLANS AND FIELD SHOTS.
10. SEE SHEET C3-2 FOR EROSION CONTROL INFORMATION.
11. GENERAL CONTRACTOR MUST VERIFY ALL TIE IN GRADES.
12. THE POND IS TO BE LINED BELOW 926.0 ELEVATION WITH 2' OF CLEAN CLAY COMPACTED TO 98%. CLAY MATERIAL PROVIDED NEEDS TO BE TESTED TO VERIFY QUALITY AND INFILTRATION RATE.

WARNING

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND / OR RELOCATION OF LINES.

THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL AT 651-454-0002 AT LEAST 48 HOURS IN ADVANCE FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.



CALL BEFORE YOU DIG!

Gopher State One Call

TWIN CITY AREA: 651-454-0002
TOLL FREE: 1-800-252-1166

Project Name

HALCYON

11050 50th St. N.
Lake Elmo, MN 55042

halcyoncemetry.com

Owner/Developer:

GLC Properties, Inc.
Lee Rossow

1870 Rice St.
Roseville, MN 55113
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C:\14530 3-1.DWG/Layout

Submittal:

03/04/15	Revised City Submittal
05/14/15	Watermarked Submittal
06/17/15	Final City Submittal

Professional Signature:

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.

4/15/15
License No. 6/17/15
Date

Quality Control:

Project Lead:	VJV	Drawn By:	WBS
Checked By:	VJV	Review Date:	6/17/15

Sheet Index:

C0-1	COVER SHEET / PROJECT LOCATION
C1-1	EXISTING CONDITIONS & REMOVALS
C2-1	SITE LAYOUT PLAN
C3-1	GRADING & DRAINAGE PLAN
C3-2	EROSION CONTROL PLAN
C4-1	UTILITY PLAN
C5-1	PRELIMINARY PLAN
C6-1 - C6-3	CIVIL DETAILS
L1-0	TREE PRESERVATION PLAN
L2-0	LANDSCAPING PLAN
L2-1	LANDSCAPING DETAILS

Sheet Title:

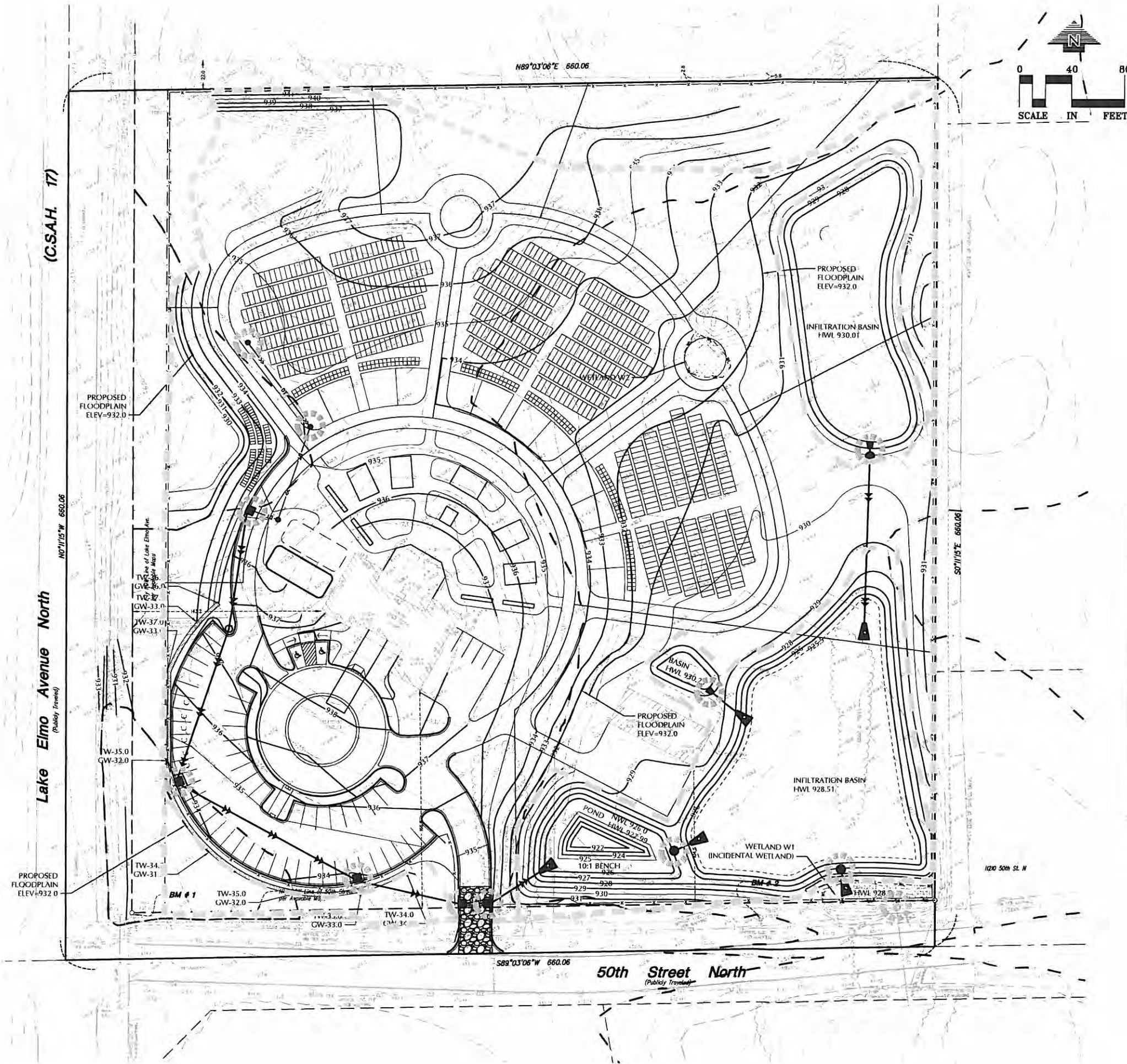
GRADING & DRAINAGE
PLAN

Project No.:

14530

Sheet No.:

C3-1



EXISTING IMPERVIOUS	0.46 Acres
PROPOSED IMPERVIOUS	2.07 Acres
DISTURBED AREA	8 Acres

NOTE:
SEE C8-2 FOR EROSION
CONTROL NOTES & DETAILS

EXISTING	PROPOSED
TOPOGRAPHIC CONTOUR	800
SPOT ELEVATION	X 800.0
DRAINAGE SLOPE	X XX%
STORM SEWER	—
STORM MANHOLE	○
CATCH BASIN	●
SANITARY SEWER	—
WATERMAIN	—
BENCHMARK	⊕
EMERGENCY OVERFLOW	~
CONSTRUCTION LIMITS	—
ADA ACCESSIBLE ROUTE	—
SILT FENCE	—
BASIN SILT FENCE	—
INLET PROTECTION	—

Project Name:

HALCYON

11050 50th St. N.
Lake Elmo, MN 55042

halcyoncemetry.com

Owner/Developer:

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Lee Rossow
1870 Rice St.
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651-308-2999
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Professional Services:

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Telephone: (763) 424-5505
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CADD Qualification:

Submitted:

03/04/15 Revised City Submittal

05/14/15 Watershed Submittal

06/17/15 Final City Submittal

Professional Signature:

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John J. Jorde

4/952 License No. 6/17/15 Date

Quality Control:

WBS

Project Lead: VJV

Drawn By: 06/17/15

Checked By: Review Date:

Sheet Index:

C8-1 COVER SHEET / PROJECT LOCATION

C8-1 EXISTING CONDITIONS & REMOVALS

C2-1 SITE LAYOUT PLAN

C3-1 GRADING & DRAINAGE PLAN

C3-2 EROSION CONTROL PLAN

C4-1 UTILITY PLAN

C5-1 PRELIMINARY PLAT

C8-1 - C8-3 CIVIL DETAILS

L1-2 TREE PRESERVATION PLAN

L2-0 LANDSCAPING PLAN

L2-1 LANDSCAPING DETAILS

Sheet Title:

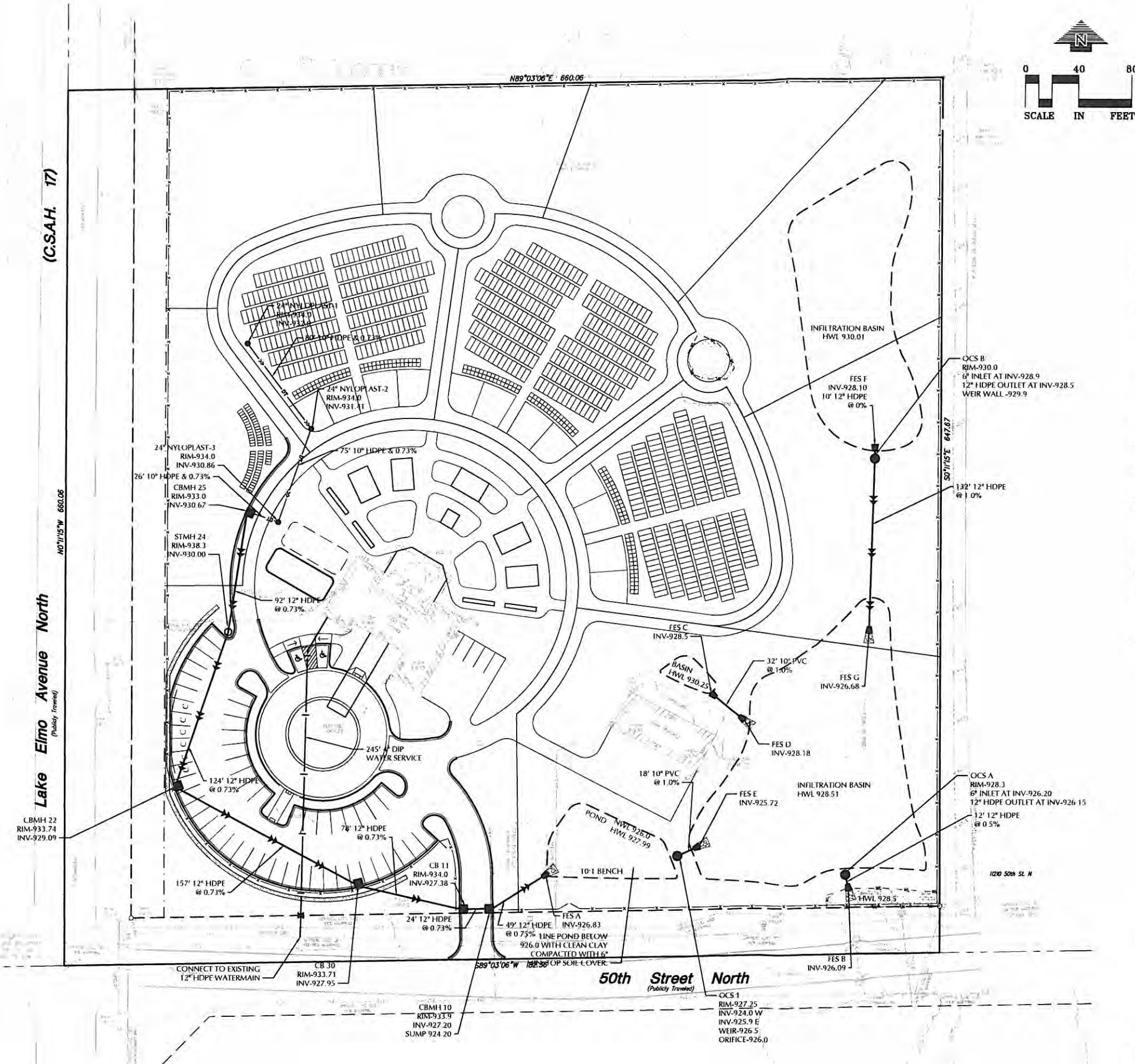
EROSION CONTROL PLAN

Project No.:

14530

Sheet No.:

C3-2



NOTES

- BACKGROUND INFORMATION IS BASED ON A FIELD SURVEY BY LOUCKS ASSOCIATES AND RECORD UTILITY DRAWINGS FROM THE CITY OF ELMO. LOUCKS ASSOCIATES DOES NOT GUARANTEE THE ACCURACY OF INFORMATION PROVIDED BY OTHERS.
- ALL SANITARY SEWER, STORM SEWER AND WATERMAIN UTILITIES SHALL BE FURNISHED AND INSTALLED PER THE REQUIREMENTS OF THE SPECIFICATIONS, THE CITY AND THE STANDARD UTILITIES SPECIFICATION OF THE CITY ENGINEERS ASSOCIATION OF MINNESOTA (CEAM), 1999 EDITION. HDPE PIPE CONNECTIONS INTO ALL CONCRETE STRUCTURES SHALL BE MADE WITH WATER TIGHT MATERIALS, UTILIZING AN A-LOK OR WATERSTOP GASKET OR BOOT, CAST-IN-PLACE RUBBER BOOT, OR APPROVED EQUAL. WHERE THE ALIGNMENT PRECLUDES THE USE OF THE ABOVE APPROVED WATERTIGHT METHODS, CONSEAL 231 WATERSTOP SEALANT, OR APPROVED EQUAL WILL ONLY BE ALLOWED AS APPROVED BY THE ENGINEER. ALL SANITARY SEWER MAIN LINE SHALL BE SDR 35. ALL SANITARY SEWER SERVICES SHALL BE SDR 26.
- SEE SHEETS C8-1 - C8-3 AND THE CONTRACT SPECIFICATIONS FOR SPECIFIC UTILITY DETAILS AND UTILITY SERVICE DETAILS.
- ALL UTILITY PIPE BEDDING SHALL BE COMPACTED SAND OR FINE GRANULAR MATERIAL PER THE REQUIREMENTS OF THE CITY. ALL COMPACTION SHALL BE PERFORMED PER THE REQUIREMENTS OF THE CEAM SPECIFICATION.
- THE CONTRACTOR SHALL NOTIFY GOPHER STATE ONE CALL AT 651-454-0002 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY EXCAVATION OR UNDERGROUND WORK.
- ADJUST ALL EXISTING STRUCTURES, BOTH PUBLIC AND PRIVATE TO THE PROPOSED GRADES WHERE DISTURBED AND COMPLY WITH ALL REQUIREMENTS OF THE UTILITY OWNERS. STRUCTURES BEING RESET TO PAVED AREAS MUST MEET OWNERS REQUIREMENTS FOR TRAFFIC LOADING.
- PROPOSED PIPE MATERIALS:
STORM SEWER: 12\"/>
- STORM SEWER PIPE SHALL MEET OR EXCEED AASHTO M294 MINIMUM PIPE STIFFNESS PER ASTM D2412 60PSI FOR 8\"/>
- PROPOSED GAS, TELEPHONE & ELECTRIC SERVICES ARE APPROXIMATE LOCATIONS ONLY. COORDINATE EACH SERVICE WITH THE UTILITY OWNER AND GENERAL CONTRACTOR. IF ANY PROPOSED SERVICE LOCATION VARIES SIGNIFICANTLY OR CONFLICTS, THE ENGINEER MUST BE NOTIFIED PRIOR TO THE INSTALLATION OF THE SERVICE.
- THE REMOVAL OF EXISTING SERVICES WITHIN THE CONSTRUCTION LIMITS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND UTILITY OWNER. ADDITIONAL SERVICES MAY EXIST.

WARNING

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND / OR RELOCATION OF LINES.

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CALL BEFORE YOU DIG!

Gopher State One Call

TWIN CITY AREA: 651-454-0002
TOLL FREE: 1-800-252-1166

Project Name:

HALCYON

11050 50th St. N.
Lake Elmo, MN 55042

halcyoncemetry.com

Owner/Developer:

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Professional Services:

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C14530 4-1.DWG/Layout1

Submittal:

03/04/15	Revised City Submittal
05/14/15	Watermain Submittal
06/17/15	Final City Submittal

Professional Signature:

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[Signature]
4/15/15 License No. 6/17/15 Date

Quality Control:

Project Lead:	VJV	Drawn By:	WBS
Checked By:		Review Date:	06/17/15

Sheet Index:

C0-1	COVER SHEET / PROJECT LOCATION
C1-1	EXISTING CONDITIONS & REMOVALS
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C7-1	CIVIL DETAILS
C8-1	TREE PRESERVATION PLAN
C9-1	LANDSCAPING PLAN
C10-1	LANDSCAPING DETAILS

Sheet Title:

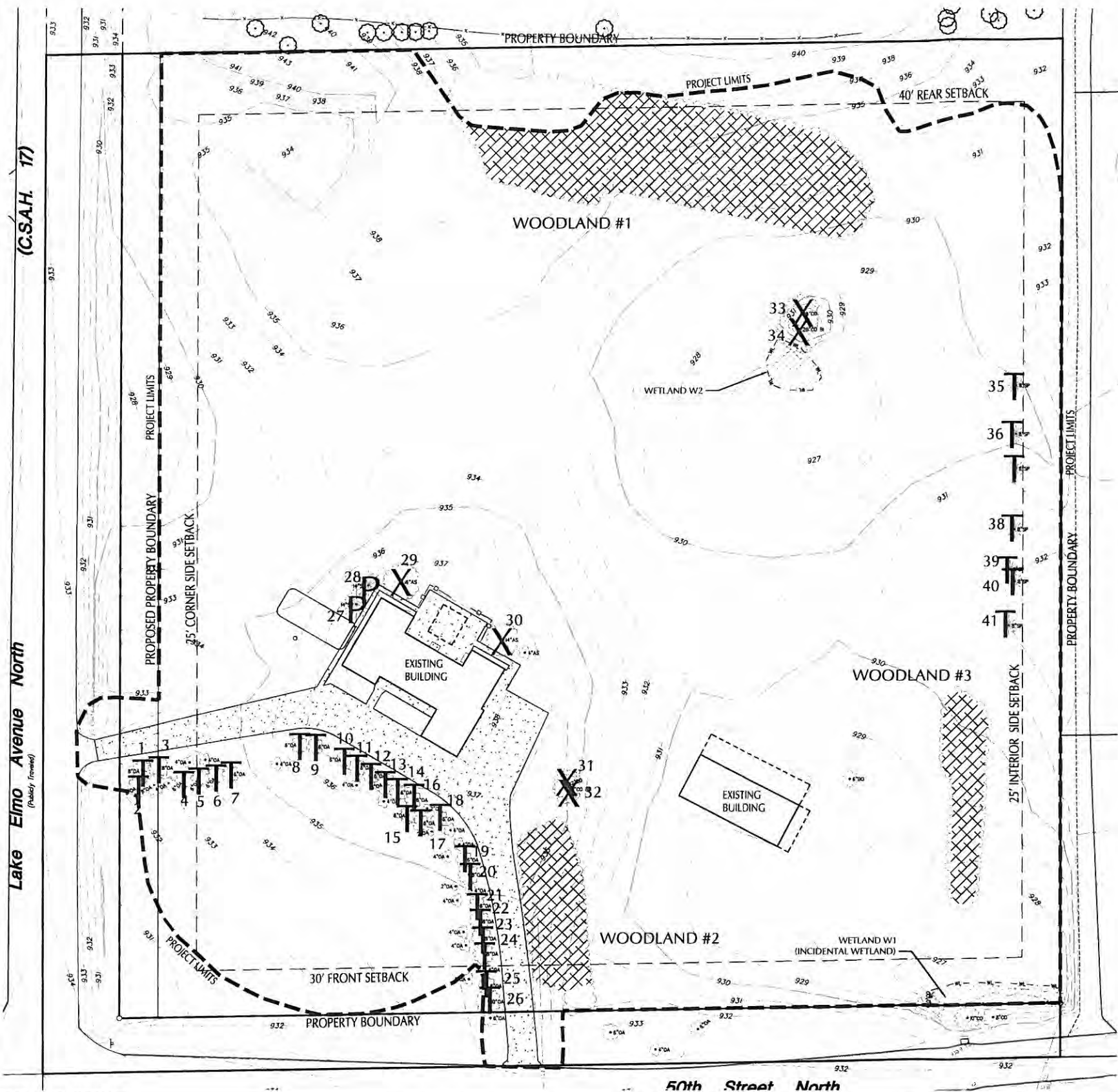
UTILITY PLAN

Project No.:

14530

Sheet No.:

C4-1

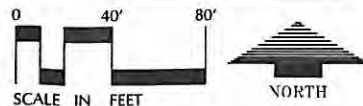


TREE INVENTORY:

- LEGEND:**
- X SIGNIFICANT TREE TO BE REMOVED
 - T SIGNIFICANT TREE TO BE TRANSPLANTED
 - P SIGNIFICANT TREE TO BE SAVED / PROTECTED DURING CONSTRUCTION - SEE DETAIL 2/L1-0
 - [Cross-hatched box] SIGNIFICANT WOODLAND TREES TO BE TRANSPLANTED

TREE INVENTORY SUMMARY:

EXISTING SIGNIFICANT TREES	187 (1550" TOTAL CAL. DIAM.)
30% ALLOWED REMOVAL	56 (465" TOTAL CAL. DIAM.)
SIGNIFICANT TREES TO BE REMOVED	35 (286" TOTAL CAL. DIAM.)
NO TREE MITIGATION IS REQUIRED	



SIGNIFICANT TREE INVENTORY

TREE #	SPECIES	DIAM (IN.)	DISPOSITION
1	OAK	8	TRANSPLANT
2	OAK	8	TRANSPLANT
3	OAK	8	TRANSPLANT
4	OAK	6	TRANSPLANT
5	OAK	6	TRANSPLANT
6	OAK	6	TRANSPLANT
7	OAK	6	TRANSPLANT
8	OAK	6	TRANSPLANT
9	OAK	6	TRANSPLANT
10	OAK	6	TRANSPLANT
11	OAK	6	TRANSPLANT
12	OAK	6	TRANSPLANT
13	OAK	8	TRANSPLANT
14	OAK	6	TRANSPLANT
15	OAK	6	TRANSPLANT
16	OAK	6	TRANSPLANT
17	OAK	6	TRANSPLANT
18	OAK	6	TRANSPLANT
19	OAK	6	TRANSPLANT
20	OAK	8	TRANSPLANT
21	OAK	6	TRANSPLANT
22	OAK	8	TRANSPLANT
23	OAK	8	TRANSPLANT
24	OAK	8	TRANSPLANT
25	OAK	6	TRANSPLANT
26	OAK	10	TRANSPLANT
27	SPRUCE	14	SAVED
28	SPRUCE	14	SAVED
29	ASH	16	REMOVED
30	ASH	14	REMOVED
31	COTTONWOOD	12	REMOVED
32	COTTONWOOD	12	REMOVED
33	COTTONWOOD	16	REMOVED
34	COTTONWOOD	20	REMOVED
35	SPRUCE	8	TRANSPLANT
36	SPRUCE	8	TRANSPLANT
37	SPRUCE	8	TRANSPLANT
38	SPRUCE	8	TRANSPLANT
39	SPRUCE	8	TRANSPLANT
40	SPRUCE	8	TRANSPLANT
41	SPRUCE	8	TRANSPLANT
WOODLAND #1		(17) @10	SAVED
		(52) @10	TRANSPLANTED
		(16) @10	REMOVE
WOODLAND #2		(16) @10	TRANSPLANTED
		(6) @10	REMOVE
WOODLAND #3		(10) @10	TRANSPLANTED
		(3) @10	REMOVED

TREE INVENTORY NOTES:

SIGNIFICANT TREES LISTED ARE AS SHOWN ON THE BOUNDARY AND TOPOGRAPHICAL SURVEY DATED 1-5-15 BY LOUCKS ASSOCIATED (SEE ATTACHED)

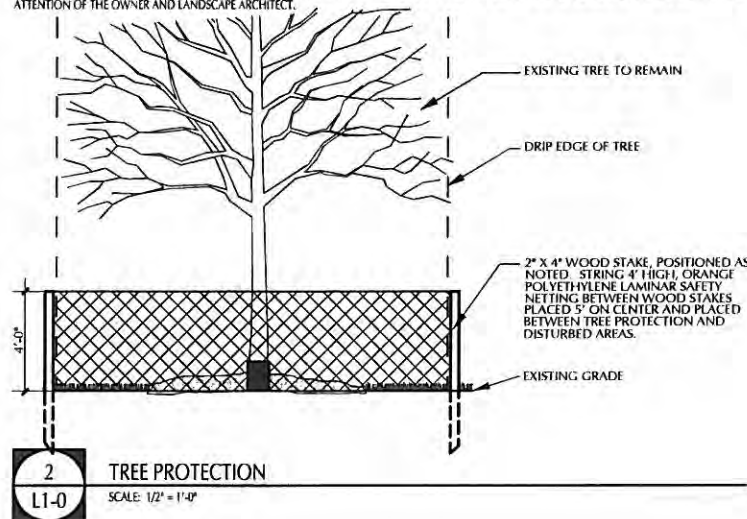
TRANSPLANTED TREE SPECIES WILL BE VERIFIED PRIOR TO FINAL SUBMITTAL. TREES LISTED AS OAK MAY ALSO INCLUDE WALNUT AND MAPLE SPECIES

WOODLAND TREE EVALUATION QUANTITIES ARE BASED ON 10" DIAM SPRUCE (TYP) AT APPROXIMATELY 15' O.C.

SEE SHEET L2-0 FOR PROPOSED STRUCTURES AND IMPERVIOUS SURFACE LOCATIONS

TREE PROTECTION NOTE:
INSTALL SHOW FENCE AROUND EACH TREE TO BE PROTECTED PRIOR TO GRADING. FENCE SHALL BE PLACED AT THE DRIP EDGE OR CRITICAL ROOT ZONES OF THE TREES. FENCING SHALL BE NO CLOSER THAN 6' TO THE TRUNK OF ANY TREE TO BE PROTECTED. THE PERIMETERS FOR TREES BEING PROTECTED SHALL BE DESIGNATED AT ALL TIMES DURING CONSTRUCTION ACTIVITY AND SIGNAGE SHALL BE INSTALLED AT ALL TREE PROTECTION AREAS THAT INSTRUCTS WORKERS TO STAY OUT. CONTRACTOR SHALL AVOID ALL AREAS WITHIN TREE PROTECTION FENCE. SOIL SHOULD BE PROTECTED FROM EROSION AND CHANGES IN CHEMISTRY FROM CONCRETE OR TOXIC MATERIALS SUCH AS FUELS AND PAINTS.

THE CONTRACTOR SHALL HAVE "TREE PAINT" ON SITE AT ALL TIMES. IF AN OAK IS WOUNDED DURING CONSTRUCTION, THE CONTRACTOR MUST IMMEDIATELY APPLY PAINT TO THE WOUND IN ORDER TO PREVENT OAK WILT. ALL DAMAGE TO TREES TO BE PROTECTED SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND LANDSCAPE ARCHITECT.



Project Name:

HALCYON
11050 50th St. N.
Lake Elmo, MN 55042

halcyoncemetry.com

Owner/Developer:

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14530 L1-0 TREE PRESERVATION.DWG/Planting

03/04/15	Revised City Submittal
05/14/15	Watershed Submittal
06/17/15	Final City Submittal

Professional Signature:

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Landscape Architect under the laws of the State of Minnesota.

William D. Spindler

12335 06/17/15
License No. Date

Quality Control: GJ

Project Lead: WS Drawn By: 06/17/15
Checked By: Review Date:

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C6-1 - C6-3	CIVIL DETAILS
L1-0	TREE PRESERVATION PLAN
L2-0	LANDSCAPING PLAN
L3-1	LANDSCAPING DETAILS

Sheet Title:

TREE PRESERVATION PLAN

Project No.:

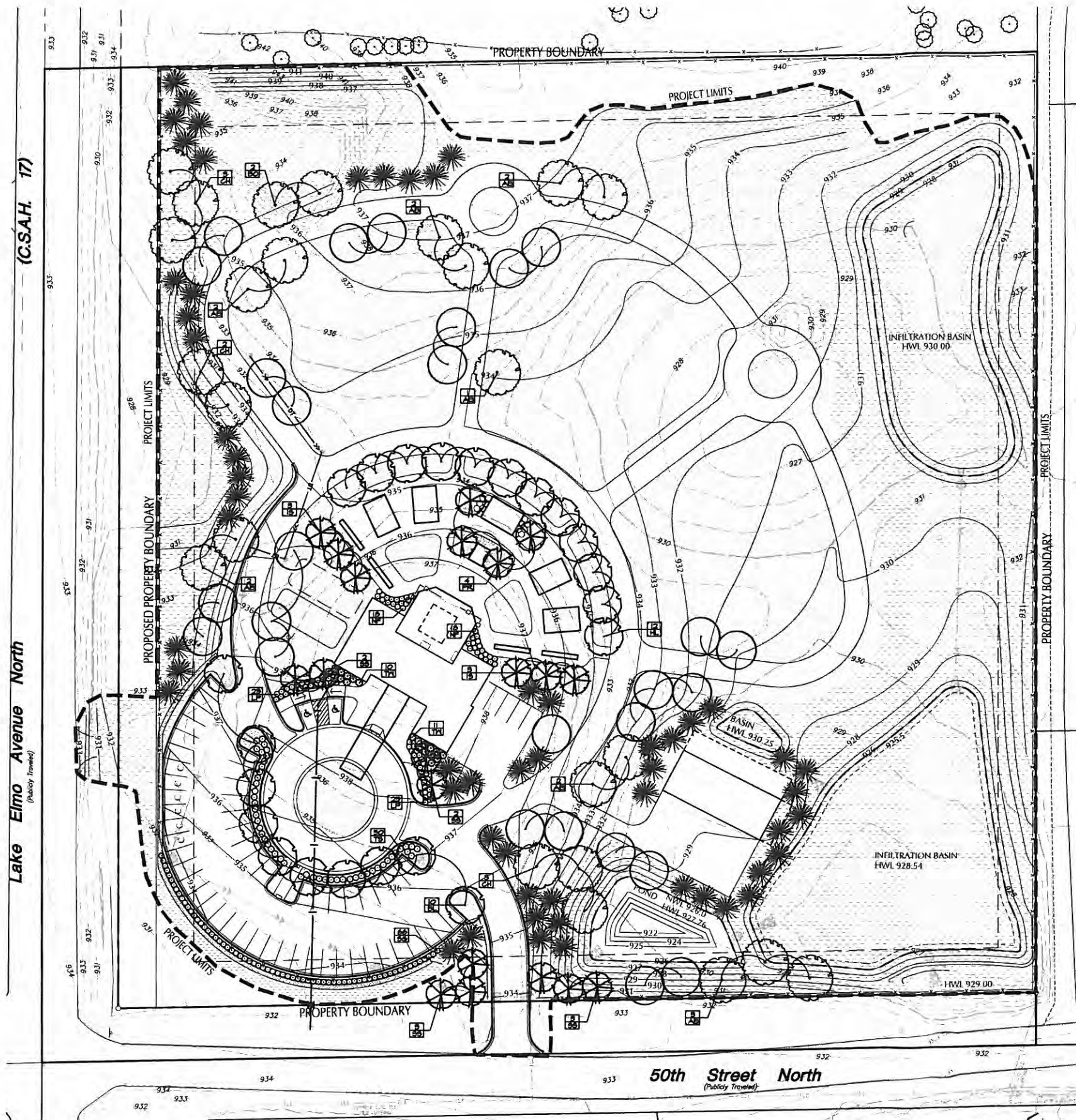
14530

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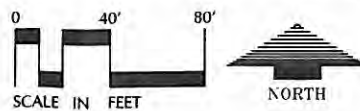
L1-0

Lake Elmo Avenue North
(Publicly Traveled)

(CSAH 17)



PLANTING PLAN:



PLANT LIST:

	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	COMMENTS
OVERSTORY TREES					
BL	10	BOULEVARD LINDEN	Tilia americana "Boulevard"	2-1/2" CAL B.B.	
AB	12	AUTUMN BLAZE MAPLE	Acer x freemanii "Jeffersred"	2-1/2" CAL B.B.	
CH	10	COMMON HACKBERRY	Celtis occidentalis	2-1/2" CAL B.B.	
PO	12	IMPERIAL HONEYLOCUST	Quercus ellipsoidalis	2-1/2" CAL B.B.	
BO	2	BUR OAK	Quercus macrocarpa	6" - 10" CAL	
	26	OAK - TRANSPLANTS	Quercus x species	6" - 10" CAL	
ORNAMENTAL TREES					
SS	10	SPRING SNOW CRABAPPLE	Malus "Spring Snow"	2" CAL B.B.	
AF	4	PRAIRIE FIRE CRABAPPLE	Malus "Prairie Fire"	2" CAL B.B.	
IS	6	IVORY SILK LILAC	Syringa reticulata "Ivory silk"	2" CAL B.B.	
EVERGREEN TREES					
	61	SPRUCE - TRANSPLANTS	Picea x species	15'-25' HT	
CONIFEROUS SHRUBS					
SG	66	SEA GREEN JUNIPER	Juniperus chinensis "Sea Green"	#5 CONT	4' O.C.
TY	21	TAUNTON YEW	Taunton x media "Taunton"	#5 CONT	3-1/2' O.C.
DECIDUOUS SHRUBS					
NF	36	NEON FLASH SPIREA	Spiraea japonica "Neon Flash"	#2 CONT	4' O.C.
LP	48	LITTLE PRINCESS SPIREA	Spiraea japonica "Little Princess"	#2 CONT	3' O.C.
TS	50	TOR SPIREA	Spiraea betulifolia "Tor"	#2 CONT	3' O.C.
PERENNIALS / GRASSES					
KF	52	KARL FOERSTER GRASS	Calamagrostis acutiflora "Karl Foerster"	#1 CONT	2' O.C.
SD	90	STELLA DE ORO DAYLILY	Hemerocallis "Stella de Oro"	#1 CONT	2' O.C.

LANDSCAPE REQUIREMENTS:

1 TREE PER 50 LF. OF STREET FRONTAGE - 1210 LF — 25 TREES
5 TREES PER 1 ACRE OF DISTURBED LAND - 8.5 ACRES — 45 TREES
TOTAL TREES REQUIRED — 70 TREES

PROPOSED PLANT TOTALS:

OVERSTORY TREES - NEW — 44
OVERSTORY TREES - TRANSPLANT — 26
ORNAMENTAL TREES — 20
CONIFEROUS TREES - TRANSPLANT — 61
SHRUBS — 221
PERENNIALS / GRASSES — 142

GENERAL NOTES:

- CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID. HE SHALL INSPECT SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS RELATING TO THE NATURE AND SCOPE OF WORK.
- VERIFY LAYOUT AND ANY DIMENSIONS SHOWN AND BRING TO THE ATTENTION OF THE LANDSCAPE ARCHITECT ANY DISCREPANCIES WHICH MAY COMPROMISE THE DESIGN AND/OR INTENT OF THE PROJECT'S LAYOUT.
- ASSURE COMPLIANCE WITH ALL APPLICABLE CODES AND REGULATIONS GOVERNING THE WORK OR MATERIALS SUPPLIED.
- CONTRACTOR SHALL PROTECT ALL EXISTING ROADS, CURBS/GUTTERS, TRAILS, TREES, LAWNS AND SITE ELEMENTS TO REMAIN DURING PLANTING OPERATIONS. ANY DAMAGE TO SAME SHALL BE REPAIRED AT NO COST TO THE OWNER.
- CONTRACTOR SHALL VERIFY ALIGNMENT AND LOCATION OF ALL UNDERGROUND AND ABOVE GRADE UTILITIES AND PROVIDE THE NECESSARY PROTECTION FOR SAME BEFORE CONSTRUCTION / MATERIAL INSTALLATION BEGINS (MINIMUM 10' - 0" CLEARANCE).
- ALL UNDERGROUND UTILITIES SHALL BE LAID SO THAT TRENCHES DO NOT CUT THROUGH ROOT SYSTEMS OF ANY EXISTING TREES TO REMAIN.
- EXISTING CONTOURS, TRAILS, VEGETATION, CURB/GUTTER AND OTHER EXISTING ELEMENTS BASED UPON INFORMATION SUPPLIED TO LANDSCAPE ARCHITECT BY OTHERS. CONTRACTOR SHALL VERIFY ANY AND ALL DISCREPANCIES PRIOR TO CONSTRUCTION AND NOTIFY LANDSCAPE ARCHITECT OF SAME.

LEGEND:

- OVERSTORY TREE
- TRANSPLANTED OAK
- ORNAMENTAL TREE
- TRANSPLANTED SPRUCE
- SHRUB BED
- PERENNIAL BED
- TURF SEED
- NATIVE SEED MIX - MNDOT #35-221

Project Name:

HALCYON

11050 50th St. N.
Lake Elmo, MN 55042

halcyoncemetary.com

Owner/Developer:

GLCJ Properties, Inc.
Lee Rossow
1870 Rice St.
Roseville, MN 55113
651-308-2999
337@lach.net

Professional Services:

LOUCKS
ASSOCIATES

Planning • Civil Engineering • Land Surveying
Landscape Architecture • Environmental

7200 Hemlock Lane - Suite 300
Maple Grove, MN 55369
Telephone: (763) 424-5505
www.LoucksAssociates.com

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CADD files prepared by the Consultant for this project are instruments of the Consultant's professional services. They are not to be used for any other project without the written consent of the Consultant. With the Consultant's approval, others may be permitted to create copies of the CADD files for use in the project. However, the Consultant shall not be responsible for any errors or omissions in the files or for any damage to the project resulting from the use of the files. The Consultant shall not be responsible for any damage to the project resulting from the use of the files.

14530 L2-0 LANDSCAPE PLAN.DWG/Planting

03/04/15 Revised City Submittal
05/14/15 Watershed Submittal
06/17/15 Final City Submittal

Professional Signature:

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Landscape Architect under the laws of the State of Minnesota.

William D. Smider

12335 06/17/15
License No. Date

Quality Control: GJ

Project Lead: WS Drawn By: 06/17/15
Checked By: Review Date:

C0-1 COVER SHEET / PROJECT LOCATION
C1-1 EXISTING CONDITIONS & REMOVALS
C2-1 SITE LAYOUT PLAN
C3-1 GRADING & DRAINAGE PLAN
C3-2 EROSION CONTROL PLAN
C4-1 UTILITY PLAN
C5-1 PRELIMINARY PLAT
C6-1 - C6-3 CIVIL DETAILS
L1-0 TREE PRESERVATION PLAN
L2-0 LANDSCAPING PLAN
L3-1 LANDSCAPING DETAILS

Sheet Title:

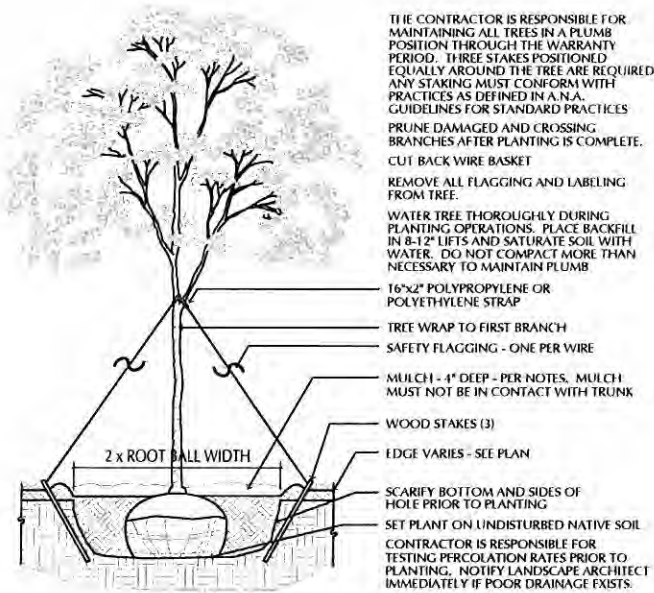
LANDSCAPE PLAN

Project No.:

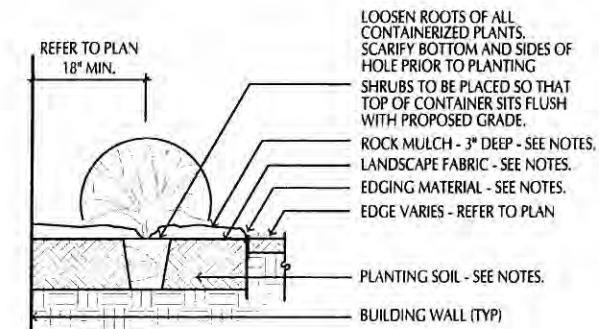
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Sheet No.:

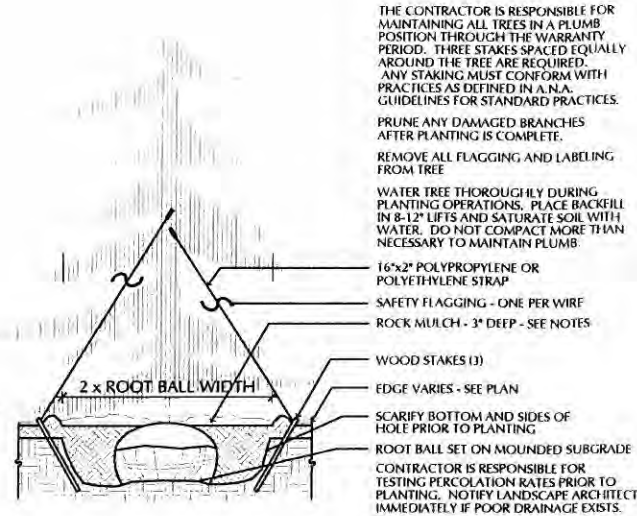
L2-0



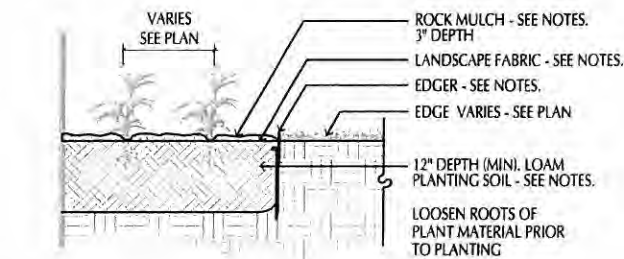
1
L2-1
DECIDUOUS TREE PLANTING DETAIL
SCALE: 1/2" = 1'-0"



3
L2-1
SHRUB PLANTING DETAIL
SCALE: 3/4" = 1'-0"



2
L2-1
CONIFEROUS TREE PLANTING DETAIL
SCALE: 1/2" = 1'-0"



4
L2-1
PERENNIAL PLANTING
SCALE: 3/4" = 1'-0"

LANDSCAPE INSTALLATION:

- COORDINATE THE PHASES OF CONSTRUCTION AND PLANTING INSTALLATION WITH OTHER CONTRACTORS WORKING ON SITE.
- NO PLANTING WILL BE INSTALLED UNTIL COMPLETE GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
- WHERE TURF ABUTS PAVED SURFACES, FINISHED GRADE SHALL BE HELD 1" BELOW SURFACE ELEVATION OF TRAIL, SLAB, CURB, ETC.
- ALL SEEDED AREAS SHALL HAVE 4" OF TOPSOIL BORROW. TOPSOIL BORROW SHALL BE USDA CLASSIFICATION MEDIUM SANDY LOAM. THE TOPSOIL SHALL HAVE 50% TO 70% SAND BY WEIGHT, A SILT/CLAY RATIO OF 2/1 OR LESS WITH NO MORE THAN 15% TO 20% CLAY BY WEIGHT AND 12% TO 20% ORGANIC MATTER BY WEIGHT.
- ALL PLANT MATERIAL SHALL COMPLY WITH THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, AMERICAN ASSOCIATION OF NURSERYMEN. UNLESS NOTED OTHERWISE, DECIDUOUS SHRUBS SHALL HAVE AT LEAST 5 CANES AT THE SPECIFIED SHRUB HEIGHT. ORNAMENTAL TREES SHALL HAVE NO V CROTCHES AND SHALL BEGIN BRANCHING NO LOWER THAN 3' ABOVE ROOT BALL. STREET AND BOULEVARD TREES SHALL BEGIN BRANCHING NO LOWER THAN 6' ABOVE FINISHED GRADE.
- PLAN TAKES PRECEDENCE OVER PLANT SCHEDULE IF DISCREPANCIES IN QUANTITIES EXIST. SPECIFICATIONS TAKE PRECEDENCE OVER NOTES.
- ALL PROPOSED PLANTS SHALL BE LOCATED AND STAKED AS SHOWN ON PLAN. ALL TREES ARE REQUIRED TO BE STAKED WITH 3 STAKES SPACED EQUALLY AROUND THE TREES.
- NO PLANT MATERIAL SUBSTITUTIONS WILL BE ACCEPTED UNLESS APPROVAL IS REQUESTED OF THE LANDSCAPE ARCHITECT BY THE LANDSCAPE CONTRACTOR PRIOR TO THE SUBMISSION OF A BID AND/OR QUOTATION.
- ADJUSTMENTS IN LOCATION OF PROPOSED PLANT MATERIALS MAY BE NEEDED IN FIELD. SHOULD AN ADJUSTMENT BE ADVISED, THE LANDSCAPE ARCHITECT MUST BE NOTIFIED.
- ALL PLANT MATERIALS SHALL BE FERTILIZED UPON INSTALLATION WITH DRIED BONE MEAL, OTHER APPROVED FERTILIZER MIXED IN WITH THE PLANTING SOIL PER THE MANUFACTURER'S INSTRUCTIONS OR MAY BE TREATED FOR SUMMER AND FALL INSTALLATION WITH AN APPLICATION OF GRANULAR 0-20-20 OF 12 OZ PER 2.5" CALIPER PER TREE AND 6 OZ PER SHRUB WITH AN ADDITIONAL APPLICATION OF 10-10-10 THE FOLLOWING SPRING IN THE TREE SAUCER.
- ALL PLANTING AREAS RECEIVING PERENNIALS SHALL RECEIVE A MINIMUM OF 12" DEPTH OF PLANTING SOIL CONSISTING OF AT LEAST 45 PARTS TOPSOIL, 45 PARTS PEAT OR MANURE AND 10 PARTS SAND.
- ALL PLANTS TO BE INSTALLED AS PER PLANTING DETAILS.
- WRAPPING MATERIAL SHALL BE CORRUGATED PVC PIPING 1" GREATER IN CALIPER THAN THE TREE BEING PROTECTED OR QUALITY, HEAVY, WATERPROOF CREPE PAPER MANUFACTURED FOR THIS PURPOSE. WRAP ALL DECIDUOUS TREES PLANTED IN THE FALL PRIOR TO 12-1 AND REMOVE ALL WRAPPING AFTER 5-1.
- BLACK METAL EDGER TO BE USED TO CONTAIN SHRUBS, PERENNIALS, AND ANNUALS WHERE BED MEETS SOD/SEED UNLESS NOTED OTHERWISE.
- ALL PLANTING BEDS TO RECEIVE 3" ROCK MULCH 3/4"-1-1/2" SIZE, COLOR TO BE VERIFIED WITH OWNER. ROCK MULCH SHALL BE PLACED OVER 3.5 OUNCE MINIMUM FIBER MAT WEED BARRIER.
- ALL TREES NOT WITHIN PLANTING BEDS TO RECEIVE 4" DEEP SHREDDED HARDWOOD MULCH WITH NO MULCH IN DIRECT CONTACT WITH TREE TRUNK.
- SPREAD GRANULAR PRE-EMERGENT HERBICIDE (PREEN OR EQUAL) PER MANUFACTURER'S RECOMMENDATIONS UNDER ALL MULCHED AREAS.
- IF THE LANDSCAPE CONTRACTOR IS CONCERNED OR PERCEIVES ANY DEFICIENCIES IN THE PLANT SELECTIONS, SOIL CONDITIONS OR ANY OTHER SITE CONDITION WHICH MIGHT NEGATIVELY AFFECT PLANT ESTABLISHMENT, SURVIVAL OR GUARANTEE, HE MUST BRING THESE DEFICIENCIES TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO PROCUREMENT AND/OR INSTALLATION.
- CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR THE OWNER ACCEPTANCE INSPECTION OF ALL LANDSCAPE AND SITE IMPROVEMENTS.
- CONTRACTOR IS RESPONSIBLE FOR ON-GOING MAINTENANCE OF ALL NEWLY INSTALLED MATERIALS UNTIL TIME OF OWNER ACCEPTANCE. ANY ACTS OF VANDALISM OR DAMAGE WHICH MAY OCCUR PRIOR TO OWNER ACCEPTANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PROVIDE THE OWNER WITH A MAINTENANCE PROGRAM INCLUDING, BUT NOT NECESSARILY LIMITED TO, PRUNING, FERTILIZATION AND DISEASE/PEST CONTROL.
- CONTRACTOR SHALL GUARANTEE NEW PLANT MATERIAL THROUGH ONE CALENDAR YEAR FROM THE DATE OF OWNER ACCEPTANCE.
- WARRANTY (ONE FULL GROWING SEASON) FOR LANDSCAPE MATERIALS SHALL BEGIN ON THE DATE OF ACCEPTANCE BY THE LANDSCAPE ARCHITECT AFTER THE COMPLETION OF PLANTING OF ALL LANDSCAPE MATERIALS. NO PARTIAL ACCEPTANCE WILL BE CONSIDERED.
- REPRODUCIBLE AS-BUILT DRAWING(S) OF ALL LANDSCAPE INSTALLATION AND SITE IMPROVEMENTS UPON COMPLETION OF CONSTRUCTION INSTALLATION AND PRIOR TO PROJECT ACCEPTANCE.
- THE APPROPRIATE DATES FOR SPRING PLANT MATERIAL INSTALLATION AND SOD PLACEMENT IS FROM THE TIME GROUND HAS THAWED TO JUNE 15. FALL SODDING IS GENERALLY ACCEPTABLE FROM AUGUST 15 - NOVEMBER 1. FALL CONIFEROUS PLANTING MAY OCCUR FROM AUGUST 15 - OCTOBER 1 AND FALL DECIDUOUS PLANTING FROM THE FIRST FROST UNTIL NOVEMBER 15. PLANTING OUTSIDE THESE DATES IS NOT RECOMMENDED. ANY ADJUSTMENT MUST BE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT.
- LANDSCAPE CONTRACTOR SHALL ESTABLISH TO HIS SATISFACTION THAT SOIL AND COMPACTION CONDITIONS ARE ADEQUATE TO ALLOW FOR PROPER DRAINAGE AT AND AROUND THE BUILDING SITE.

Project Name:

HALCYON

11050 50th St. N.
Lake Elmo, MN 55042

halcyoncemetary.com

Owner/Developer:

GLCJ Properties, Inc.
Lee Rossow
1870 Rice St.
Roseville, MN 55113
651-308-2999
337@lach.net

Professional Services:

**LOUCKS
ASSOCIATES**

Planning • Civil Engineering • Land Surveying
Landscape Architecture • Environmental

7200 Hemlock Lane - Suite 300
Apple Grove, MN 55149
Telephone: (763) 424-5505
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14530 L2-1 LANDSCAPE DETAILS.DWG (Planning)

03/04/15 Revised City Submittal
05/14/15 Watershed Submittal
06/17/15 Final City Submittal

Professional Signature:

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Landscape Architect under the laws of the State of Minnesota.

William V. Spindler

12335 06/17/15
License No. Date

Quality Control:

Project Lead: WS Drawn By: 06/17/15
Checked By: Review Date:

CD-1	COVER SHEET / PROJECT LOCATION
CI-1	EXISTING CONDITIONS & REMOVALS
CI-1	SITE LAYOUT PLAN
CI-1	GRADING & DRAINAGE PLAN
CI-2	EROSION CONTROL PLAN
CI-1	UTILITY PLAN
CI-1	PRELIMINARY PLAT
CI-1	CIVIL DETAILS
CI-1	TREE PRESERVATION PLAN
CI-1	LANDSCAPING PLAN
CI-1	LANDSCAPING DETAILS

Sheet Title:

LANDSCAPING DETAILS

Project No.:

14530

Sheet No.:

L2-1

MEMORANDUM

FOCUS ENGINEERING, inc.

Cara Geheren, P.E. 651.300.4261
Jack Griffin, P.E. 651.300.4264
Ryan Stempski, P.E. 651.300.4267
Chad Isakson, P.E. 651.300.4283

Date: July 8, 2015

To: Nick Johnson, City Planner
Cc: Kyle Klatt, Planning Director
From: Jack Griffin, P.E., City Engineer

Re: Halcyon Cemetery
Preliminary and Final Plan Review

An engineering review has been completed for the Halcyon Cemetery Preliminary-Final Plat, and Construction Plans. The submittal consisted of the following documentation prepared by Loucks Associates, dated January 5, 2015:

- Site Plan and Preliminary Plat dated June 17, 2015.
- Construction Plans for Parking, Grading, Drainage, Erosion Control and Utilities dated June 17, 2015.
- Tree Preservation Pland and Landscape Plan dated June 17, 2015.
- Stormwater Management Plan dated May 14, 2015.

STATUS/FINDINGS: Engineering has prepared the following review comments and conditions for Final Plat:

PRELIMINARY / FINAL PLAT

- The Final Plat must be revised to include an additional 25 feet R/W along CSAH 17 (Lake Elmo Avenue) as required by Washington County (75 feet from CSAH 17 centerline).
- An 80 foot R/W with 10 foot utility easements immediately outside of the R/W is the recommended minimum corridor plan for 50th Street as a Municipal State Aid major collector roadway.
 - The Final Plat must include an additional 5 feet R/W along 50th Street so that the 50th Street R/W is a total of 80 feet. The proposed plat of 35 feet must be revised to 40 feet.
 - The Final Plat must include a 10 foot utility easement along the full length of the south property line, located just outside of the 50th Street R/W.
- The Final Plat must include additional R/W at the intersection of CSAH 17 and 50th Street to accommodate a sight line triangle similar to the sight triangle at the southeast corner of this intersection.
- The Final Plat must be contingent upon the applicant providing written documentation demonstrating adequate wastewater management facilities for the proposed land use. Minimum documentation must include:
 - If the existing system is to continue in use, submit to the City a compliance inspection report that has been reviewed and approved by Washington County.
 - Provide water use data used to size the current and secondary ISTS systems for the property.
 - Provide percolation testing indicating that the proposed locations are suitable for the proposed use.
 - Provide to the City a copy of Washington County's ISTS system approvals, including conditions.

- The storm water ponds, infiltration basins and all storm sewer are to be privately owned and maintained by the property owner with this responsibility recorded to run with the property ownership. These facilities have not been designed to meet City design standards for storm sewer or storm water management facilities. The Final Plat must be conditioned upon the applicant executing an agreement to own, operate and maintain the storm sewer and storm water facilities proposed on the site and recording this agreement with the property.

CONSTRUCTION PLANS: The following engineering review comments must be addressed prior to any construction work on the property.

- Provide plan notes on Sheet C3-1, C3-2 and C4-1 calling out measures to protect both the existing and proposed drainfield sites throughout the construction process.
- Sheet C4-1, Utility Plan: Add note that all storm sewer pipe and storm water facilities are to be privately owned and maintained.
- Sheet C4-1, Utility Plan: Update all Plan Notes to be pertinent and consistent with the proposed Utility Plan. Generic notes appear to be inconsistent or irrelevant to this project.
- Replace all City Standard Details and Plan Notes with the updated Details and Plan Notes dated February 2015.
- Sheet C8-1, Civil Details: Remove details 3003 and 3013. The City Standard Detail No. 605 and 604 respectively must be used as shown on Sheet C8-2.
- The Construction Plans must be updated with field verified utility locations with the plans resubmitted for engineering review and approval prior to the start of construction. The applicant must complete a Gopher State One call and utility locate and field survey all utilities to finalize the construction plans. All notes referring to utility information being provided by others must be removed from the plans.
- The Tree Protection detail on Sheet C1-1 and Sheet L1-0 must be replaced with the City standard detail 904.

LANDSCAPE PLANS: This engineering review does not include a review of the proposed Landscape Plans, however the following comments are noted.

- The landscape plan must be revised to provide maintenance access for the storm water pond adjacent to the entrance driveway.
- The landscape plan must be revised to relocate trees planted directly over the proposed utilities. Revisions must be made to address these conflicts to maintain a minimum 5 foot separation.

Station #1
3510 Laverne Ave. No.
Lake Elmo, MN 55042
651-770-5006



Station #2
4259 Jamaca Ave. No.
Lake Elmo, MN. 55042
651-779-8882

LAKE ELMO FIRE DEPARTMENT

July 7, 2015

Review of the PRELIMINARY AND FINAL PLAT – CEMETARY

Following a review of the packet provided, I have questions and concerns related to the following:

- Hydrant placement/spacing. This being a commercial property, we must adhere to the 350' spacing. I did not see any indication of hydrants on the drawings I had.
- FD will also need to approve the placement of the FDC (Fire Department Connection) as it relates to the fire sprinkler suppression system.
- Designation of "Fire Lanes" and possibly "No Parking" area to ensure proper access for emergency vehicles to all areas at all times.
- Adequate overhead clearance of driveway canopy for ambulance and fire vehicles.
- Proper turning radius's at all corners to allow emergency vehicles to access all areas of the facility.

Sincerely,

Greg Malmquist, Fire Chief

"Proudly Serving Neighbors & Friends"



Public Works Department

Donald J. Theisen, P.E.
Director

Wayne H. Sandberg, P.E.
Deputy Director/County Engineer

July 7, 2015

Nick Johnson
City Planner
City of Lake Elmo
3600 Laverne Avenue North
Lake Elmo, MN 55042

RE: Washington County comments on the plans and plat for Halcyon

Dear Mr. Johnson,

Thank you for providing Washington County with the plans and plat for Halcyon. Based on review of the plans, we offer the following comments and recommendations to consider as you process this application through the City of Lake Elmo:

- The plans identify a retaining wall at the west edge of the parking lot along the future right-of-way line of CSAH 17/Lake Elmo Avenue. In order to construct the retaining wall, work from the county road right-of-way will be necessary. Also, the retaining wall must be located outside the road right-of-way so it will be necessary to stake the property line to verify the location.

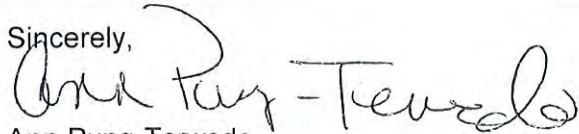
A detailed construction plan set of the wall should be prepared and submitted with a Washington County Right-of-Way Permit application.

- The existing driveway access on Lake Elmo Avenue should be removed as a condition of approval. The plan to remove the driveway can be included in the permit application noted above.
- The Plat of Halcyon is included in the application package. The final plat should include the additional 25 feet required for CSAH 17/Lake Elmo Avenue. Currently, there is 100 feet of right-of-way (50 feet from the centerline). The Washington County Comprehensive Plan 2030, Right-of-Way requirement is 150 feet (75 feet from the centerline).
- The developer or the city must submit the drainage report and calculations to our office for review of any downstream impacts to the county drainage system. Along with the drainage calculations, we will request written conclusions that the volume and rate of stormwater run-off into the county right of way will not increase as part of the project.
- A copy of the Valley Branch Watershed Permit shall be submitted to our office.

Halcyon
July 7, 2015
Page 2

Thank you for the opportunity to comment on this plan. If you have any questions, please contact me at 651-430-4362 or ann.pung-terwedo@co.washington.mn.us. For permit applications, please contact Carol Hanson at Carol.hanson@co.washington.mn.us.

Sincerely,

A handwritten signature in black ink that reads "Ann Pung-Terwedo". The signature is written in a cursive style with a large, looping initial "A".

Ann Pung-Terwedo
Senior Planner

C: Carol Hanson, Office Specialist

R/Plat Reviews/City of Lake Elmo/Halcyon 7-7-2015

VALLEY BRANCH WATERSHED DISTRICT PERMIT APPLICATION

TO BE COMPLETED BY VBWD:

PERMIT NUMBER 2015-04
PERMIT FEE RECEIVED \$1,000 (\$2,347 still required)
DATE RECEIVED December 30, 2014

Return application to
John Hanson
Barr Engineering Company
Engineers for the Valley Branch Watershed District
4700 West 77th Street
Edina, MN 55435-4803



A permit fee shall accompany this permit, unless waived by the Board of Managers.
(Governmental Bodies are not required to pay a fee.)

Project Information		Applicant Information	
Name of Project:		Name:	
Purpose of Project:		GLCT PROPERTIES	
H A L C Y O N		Address:	
Project Location (street address, if known; otherwise, major intersection):		1870 RICE ST	
11050 60 TH ST N		City, State, Zip:	
City or Township: LAKE ELMO		ST PAUL, MN	
Legal Description (proof of ownership required):		Phone: 651-308-2999	
PID:		Fax:	
Section: Township: Range:		Email: 337 Q LACH.NET	
Project Timeline: Start Date: 2-1-15			
Completion Date: 9-1-15			
Authorized Agent Information		Owner Information (if different than Applicant)	
Name:		Name: LEE ROSSOW	
Business Name:		Address:	
Address:		4416 RIVER RD S	
City, State, Zip:		City, State, Zip:	
		AFTON, MN 55001	
Phone:		Phone: SAME	
Fax:		Fax:	
Email:		Email:	

Once a Valley Branch Watershed District permit has been approved, the permit conditions will be attached to the back of this form.

By signing this permit application, the permit applicant, his/her agent, and owner (hereinafter "Permittee") shall abide by all the conditions set by the Valley Branch Watershed District (VBWD). All work which violates the terms of the permit by reason of presenting a serious threat of soil erosion, sedimentation, or an adverse effect upon water quality or quantity, or violating any rule of the VBWD may result in the VBWD issuing a Stop Work Order which shall immediately cause the work on the project related to the permit to cease and desist. All work on the project shall cease until the permit conditions are met and approved by the VBWD representatives. In the event Permittee contests the Stop Work Order issued by the VBWD, Permittee shall attend a VBWD Board of Managers meeting and discuss the project. Any attorney fees, costs, or other expenses incurred on behalf of the VBWD in enforcing the terms of the permit shall be the sole expense of the permit applicant. Costs shall be payable from the permit applicant's permit fee. If said fees exceed the permit amount, the Permittee shall have ten (10) days from the date of receipt of the invoice from the VBWD to pay for the cost incurred in enforcing the permit, by which to pay the VBWD for said costs. If costs are not paid within the ten (10) days, the VBWD will draw on the permit applicant's surety. The Permittee agrees to be bound by the terms of the final permit and conditions required by the VBWD for approval of the permit. The permit applicant further acknowledges that he/she has the authority to bind the owner of the property and/or any entity performing the work on the property pursuant to the terms of the VBWD permit, and shall be responsible for complying with the terms of the VBWD permit.

Signatures (Required):

12-30-2014 Lee Rossow 12-30-14
Applicant/Date Owner (if different than Applicant)/Date Owner's Authorized Agent/Date



LINCOLN FETCHER • DAVID BUCHECK • DONALD SCHEEL • DALE BORASH • RAY LUCKSINGER


VALLEY BRANCH WATERSHED DISTRICT • P.O. BOX 838 • LAKE ELMO, MINNESOTA 55042-0538

www.vbwd.org

1. Plans shall be revised and/or calculations shall be updated to show the site will conform to VBWD stormwater runoff-rate control standards on the west side.
2. Specifications for the needed soil corrections at the proposed infiltration basin shall be provided for VBWD approval prior to construction. The biofiltration detail on Sheet C8-3 should not allow the use of native soil that is clayey in the planting medium.
3. The plans should be updated to include details of OSA, and the elevations should be consistent with the HydroCAD model for Pond 10P.
4. This permit is not valid until a maintenance agreement in the general format of Appendix B of the VBWD Rules is submitted to and approved by the VBWD Attorney.
5. The required surety and fees shall be submitted prior to construction.
6. This permit is not transferable.
7. This permit is subject to obtaining all other permits required by governmental agencies having jurisdiction (including an NPDES permit).
8. The VBWD Engineer and Inspector shall be notified at least 3 days prior to commencement of work.
9. Erosion controls shall be installed prior to the commencement of grading operations and must be maintained throughout the construction period until turf is established. Additional erosion controls may be required, as directed by the VBWD Inspector or VBWD Engineer.
10. The following additional erosion controls shall be implemented on the site:
 - a. All proposed slopes 3 feet horizontal to 1 foot vertical (3H:1V) should be covered with erosion-control blanket.
 - b. Silt fence should follow existing contours as closely as feasible to limit the potential for gully erosion along the edges.
 - c. Any sediment that collects in storm sewers, ponds, or other water management features shall be removed.
 - d. Street sweeping shall be performed if sediment collects on streets.
11. To prevent soil compaction, the proposed infiltration areas shall be staked off and marked during construction to prevent heavy equipment and traffic from traveling over it. If infiltration facilities are in place during construction activities, sediment and runoff shall be kept away from the facility, using practices such as diversion berms and vegetation around the facility's perimeter. Infiltration facilities shall not be excavated to final grade until the contributing drainage area has been constructed and fully stabilized. The final phase of excavation shall remove all accumulated sediment and be done by light, tracked equipment to avoid compaction of the basin floor. To provide a well-aerated, highly porous surface, the soils of the basin floor shall be loosened to a depth of at least 5 feet to a maximum compaction of 85% standard proctor density prior to planting. The upper 10 inches of soil shall be tilled prior to planting.
12. All disturbed areas shall be vegetated within 14 days of final grading.
13. The applicant is responsible for removal of all temporary erosion-control measures, including silt fence, upon establishment of permanent vegetation at the project site as determined by the VBWD Engineer and/or Inspector.
14. Valley Branch Watershed District shall be granted drainage easements which cover land adjacent to stormwater management facilities, wetlands, and lowlands up to their 100-year flood elevations and all ditches, storm sewers, and maintenance access to the stormwater management facilities.
15. The required drainage easements and access easements shall be recorded with the Washington County Recorder's Office.
16. Return or allowed expiration of any remaining surety and permit closeout is dependent on the permit holder providing proof that all required documents have been recorded (including but not limited to easements) and providing as-built drawings that show that the project was constructed as approved by the Managers and in conformance with the VBWD Rules and Regulations.

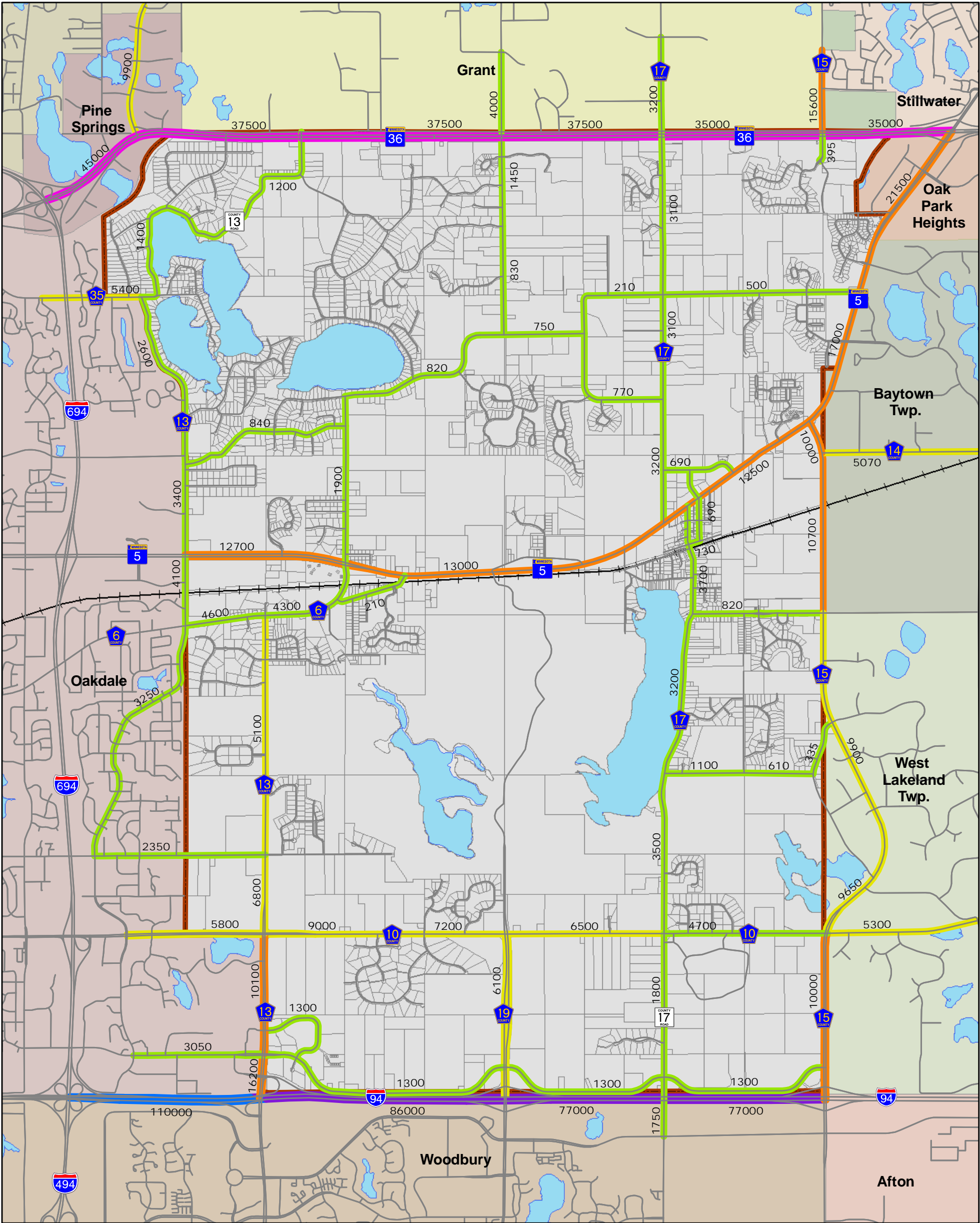
Approved: _____

June 25, 2015



Signature Title
Valley Branch Watershed District

Note: The grant of this permit in no way purports to permit acts, which may be prohibited by other governmental agencies.



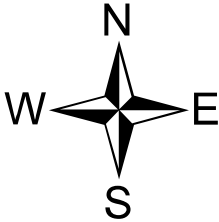
**FIGURE 3:
EXISTING AADT**

Transportation Plan
2030 Comprehensive Plan
City of Lake Elmo, Minnesota



Map date: April 2009
Prepared by:

TKDA
ENGINEERS • ARCHITECTS • PLANNERS



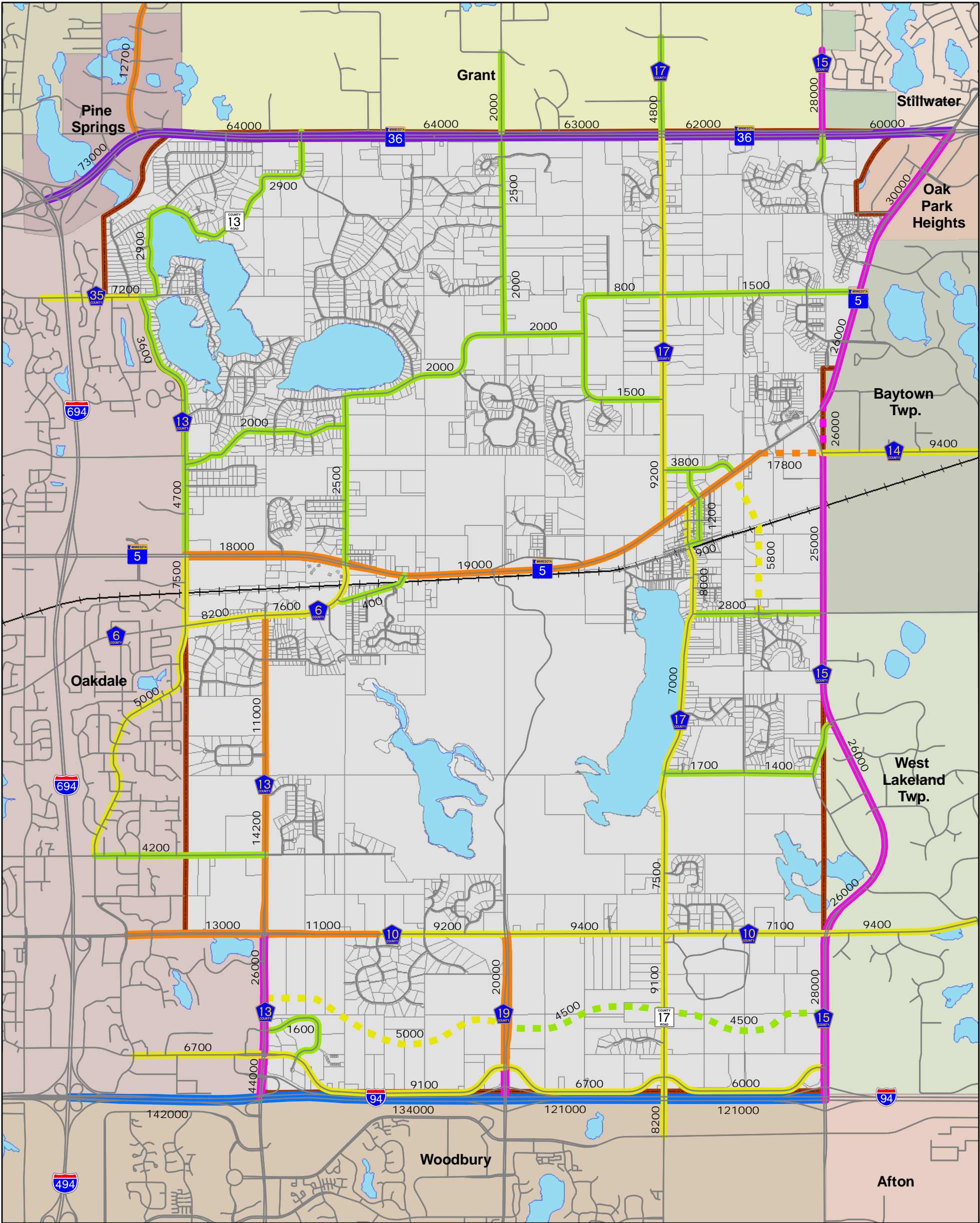
LEGEND

- City Boundary
- Roadways
- Parcels
- Lakes

EXISTING AADT

- < 5,000
- 5,000 - 9,999
- 10,000 - 24,999
- 25,000 - 49,999
- 50,000 - 99,999
- 100,000 OR >

LIMITATION OF LIABILITY
This document is not a legally recorded map or survey and is not intended to be used as one. This map is a compilation of records and information from various state, county, and city offices, and other sources.



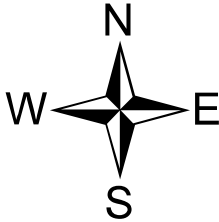
**FIGURE 8:
2030 PROJECTED VOLUMES
IMPROVED SCENARIO**

Transportation Plan
2030 Comprehensive Plan
City of Lake Elmo, Minnesota



Map date: April 2009
Prepared by:

TKDA
ENGINEERS • ARCHITECTS • PLANNERS



LEGEND

- City Boundary
- Parcels
- Roadways
- Lakes

**2030 PROJECTED VOLUMES
IMPROVED SCENARIO**

- < 5,000
- 5,000 - 9,999
- 10,000 - 24,999
- 25,000 - 49,999
- 50,000 - 99,999
- 100,000 OR >

Note: Dashed lines represent future roadways not currently in place.

LIMITATION OF LIABILITY
This document is not a legally recorded map or survey and is not intended to be used as one. This map is a compilation of records and information from various state, county, and city offices, and other sources.



984

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☒ Periodicals ☐ Literature

☒ Keyword ☐ Title ☐ Author ☐ Topic

Cemetery proximity and single-family house price.

Stadium View /
Luxury Apartments In A Convenient



[Link/Page Citation](#)

1

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ABSTRACT

In this article, the potential impact of cemeteries on value is addressed empirically using regression analysis on data from 575 transactions of single-family houses in the vicinity of four cemeteries. Consistent with the limited previous research on this topic, when all observations are analyzed simultaneously no price effect is discovered. However, when each cemetery is investigated separately, the results vary. In two cases, cemetery view is not significantly related to price. In a third case, cemetery view is associated with higher prices (equal to 8.8% of mean house price), and in a fourth case, cemetery view is associated with lower prices (equal to 10.1% of mean house price).

The real estate literature is replete with papers reporting the influence of externalities on residential property values. Studies appearing in The Appraisal Journal, for example, observe positive price effects given a house's proximity to a golf course, (1) or an ocean, (2) and negative effects for proximity to freight rail lines, (3) a cell phone tower, (4) a ruptured oil pipeline, (5) highway noise barriers, (6) and the residence of a registered sex offender. (7)

It is intuitive that price premiums should apply when an externality adds to an owner's enjoyment of his or her property and that discounts should apply when a property is located close to an externality that poses either a nuisance or potential danger. Not all market participants, however, immediately adopt this view, as indicated by Hansen, Benson, and Hagen (8) who report significant price discounts for houses located close to a major fuel pipeline after, but not before, it exploded.

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The impact of open space property uses on nearby residential property values has been subject to some empirical investigation. The results, in general, are not surprising. Golf courses, parks, and green spaces tend to be positive externalities for surrounding properties, and landfills tend to be negative externalities. Of the various types of open space property uses, cemeteries have been the least studied. A search of the literature reveals only two published studies on this topic and both of these examine the same Portland, Oregon, database to report an insignificant price difference between houses located close to a cemetery and those located farther away. (9)

The purpose of the current study, therefore, is to direct some additional attention to this little-examined subject. In this study, regression analysis is applied to transaction data from 575 single-family houses located in relatively close proximity to four cemeteries in Greene County, Ohio. Grouping cemeteries for analysis, as was done in previous analyses, may mask the impact of a cemetery on the transaction price of nearby houses.

Because some of the advantages and disadvantages associated with close cemetery proximity depend upon whether or not the cemetery is within sight of the subject property, the present study also improves upon the previous research by simultaneously investigating the price effect resulting from both the distance from, and view of, a cemetery. This article describes the characteristics of cemeteries that may impact the value of nearby properties, reviews the pertinent literature, and explains the data and methodology used in the research. The results of the analysis are then presented.

Cemetery Characteristics That May Influence Value

The effect of proximity to a cemetery on nearby residential property value is uncertain. On the positive side, cemeteries offer a place to walk, jog, exercise, or otherwise enjoy the outdoors safe from speeding traffic. In effect, some people may view a cemetery as a park, and the tombstones as incidental.

A view of a relatively open vista that includes some tombstones may be preferable to one that is limited to the back of the neighbor's garage or house. Further, a person who wishes to regularly visit the final resting place of a loved one may value a house located conveniently close to the loved one's grave. To the extent that any of these advantages apply, purchasers may be willing to pay a premium for a house located in close proximity to a cemetery, and the premium may be enhanced to the degree that market participants believe the future use of the cemetery will not change.

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Historically, there has been considerable reluctance, especially in rural areas, to disturb land used as a cemetery. Therefore, owners of houses in close proximity to such cemeteries can be fairly certain that their properties will not subsequently be squeezed in by additional houses or less desirable property uses. On the other hand, there is no guarantee that the use of cemetery property is fixed. Cemeteries are occasionally relocated and the property put to an alternative use, which residential neighbors may find objectionable. Kay (10) observed that the probability of cemetery relocation may be positively related to the rate at which an area is becoming urbanized.

There are also potential disadvantages associated with close proximity to a cemetery. Cemetery workers, visitors, or trespassers may create noise disturbances. The relatively pleasing vista previously mentioned may be compromised if the cemetery falls into disrepair or if trespassers vandalize it.

Potential physical dangers to people residing in close proximity to a cemetery include poisoning and disease. Spongberg and Becks (11) reported that cemeteries may release hazardous chemicals and metals into surrounding soil and ground water. Possible contaminants include arsenic and mercury, which were used in past embalming practices, or formaldehyde used in current embalming practices; and varnishes, sealers, and preservatives used on wood coffins, or lead, zinc, and copper from metal coffins.

Vezzani (12) asserts that mosquitoes are the most medically important insect vectors of disease. He also concludes that cemeteries are highly suitable habitats for artificial container-breeding mosquitoes due to the great availability of the different resources that they need (i.e., sugar substances, shelter, and water-filled containers).

Finally, there are psychological factors associated with cemeteries that may negatively impact some people. The sight of a grave being dug or an interment service can put a damper on a party being held at a residence with a cemetery view. For some, the sight of a cemetery or of tombstones may be upsetting, and for others, knowing that the cemetery is close may be disconcerting.

Each of these factors may influence potential purchasers who may lower their bids or refuse to make offers on properties with cemetery views. Larsen and Coleman (13) report moderate, but statistically significant selling price effects for residential properties that were classified as psychologically impacted for reasons other than the property's proximity to a cemetery.



Casual examination of cemeteries in the U.S. Midwest results in several observations that are consistent with the notion that cemeteries may negatively impact the value of nearby single-family houses. First, cemeteries tend to be initially situated remotely from residential properties. Second, in recent years when residential development has occurred in close proximity to a cemetery, developers have shown a propensity, where possible, to leave a wooded buffer zone between the cemetery and the residential development. Finally, houses constructed in close proximity to an existing cemetery are rarely, if ever, high-end properties.

Even if the disadvantages enumerated are significant in the transaction process, their impact may not be observable in transaction prices as long as the search for a buyer routinely continues until a buyer is located who does not care about or is ignorant of the physical risks or is not psychologically impacted by the proximity of a cemetery to the subject property. It may, however, take more time to locate such a purchaser and this would be revealed by a significantly longer time on market for houses located in close proximity to a cemetery.

The fact that the only relevant database previously studied did not contain time on market data may help explain why it yielded no significant market effects attributable to cemetery proximity. Also, there are other factors that may have contributed to the previous findings. Unfortunately, time on market is not available in the present database. The addition of a time on market variable would be a valuable addition to any extensions of this research.

Literature Review

Bolitzer and Netusil (14) employ regression analysis to study how single-family house selling price is influenced by the proximity of the house to a variety of open space property uses, including cemeteries. They analyze transactions that occurred in 1990-1992 in Portland, Oregon. Selling prices of 662 houses located within 1,500 feet of one of fifteen cemeteries are compared to prices of 6,005 houses that are not located within 1,500 feet of any type of open space (e.g., cemetery, golf course, public park). No significant differences in prices attributable to cemetery proximity are discovered.

Lutzenhiser and Netusil (15) analyze the same database and employ basically the same methodology as Bolitzer and Netusil. Again, selling price is found not to differ significantly between houses located on either side of the 1,500-foot demarcation. In addition, a variable to account for cemetery size is included in this model, and house prices are found to be insignificantly related to it.

These studies are noteworthy because they were pioneering efforts, but both suffer from problematic methodological issues. For instance, the 1,500-foot demarcation point appears a bit arbitrary; Bolitzer and Netusil state it "was selected after consulting with park specialists at Metro." (16) It is unclear what expertise metropolitan park specialists possessed concerning setting this kind of criteria. No tests were conducted to determine if price effects are present within 1,500 feet of each cemetery or whether 1,500 feet is an appropriate demarcation point. It is possible that in some cases local price effects do not occur, but for other cases the local price effects exist and are exhausted before 1,500 feet, while for still other properties, local price effects extend farther. The exact solution is unique to each situation and dependent upon factors such as topography, foliage, housing density, and cemetery condition.

Another methodological problem is that neither one of the studies compares properties with a cemetery view to those without a view to investigate whether view might represent a better demarcation point. Also, although the model employed in these studies includes binary variables to control for the area of the city in which a particular house is located, a number of factors not included in the model could compromise the validity of the comparison (e.g., the extent to which other externalities affect properties on both sides of the demarcation line). Further, the data for houses surrounding the fifteen cemeteries is incorporated into a single model, which may have exacerbated the issue if the variables that significantly influence nearby residential property values are not identical for all cemeteries. This possibility is demonstrated in the current study by first estimating a single model that includes all four study areas, and then comparing this result to results obtained by estimating separate models for each cemetery and restricting the analysis to houses located in the same neighborhood.

Data

This article analyzes transactions of 575 single-family houses in the vicinity of four cemeteries, all located in Greene

County, Ohio. Greene County, located in southwestern Ohio, was established at its present boundaries in 1819. Historically, Greene was an agricultural county, and today it remains predominantly rural. Only 4% of the county's 421 square miles consists of urban areas. Its total population is about 148,000 residents. After World War II, parts of Greene County became a bedroom community for the city of Dayton in adjacent Montgomery County. In more recent years, the county has undergone substantial commercial development.

According to the Greene County Auditor's office, 65 cemeteries are located in the county. Several are small family plots and most of the 65 are located remotely enough that measuring their effect on nearby houses is problematic because there are not many houses close by. This article focuses on four locations where residential development has extended to an active (i.e., burials are still taking place) cemetery border: Bellbrook, Fairborn, Beavercreek, and Xenia. All four study areas were personally inspected to determine whether each property currently has a cemetery view. A definition of variables used in studying the four locations can be found in Table 1.

Bellbrook Area

The first study location is situated on 16.9 acres in the northeastern corner of the city of Bellbrook (population 7,009). Residential development reached this cemetery in 1961, when the first of five houses that abut the cemetery was constructed. The last house to abut the cemetery was built in 1965. All houses in the sample were constructed in 1951-2003. There are 157 houses located to the east and southeast and within 1,513 feet of the well-maintained cemetery. The sample is limited to the 122 houses where an arm's-length transaction of an improved lot could be identified. Transactions in this study area occurred in 1958-2008.

There is no buffer zone between the Bellbrook cemetery and the residential development, but trees, houses, and structures in the development block a cemetery view for most houses in the Bellbrook study area. However, 18 of the sample properties do have a full or partial view of this cemetery. It was assumed that the view from each property was the same at the time of each transaction. Data limitations prevent determination of property quality and condition at the time of each transaction, but at the time of the study, it was observed that property quality and condition tended to improve with distance from the cemetery. The Bellbrook area is limited to 1,513 feet by default because the neighborhood ends at that distance.

Property characteristic and transaction information analyzed in this study were obtained from the office of the Greene County Tax Assessor and the office of the Greene County Recorder. Table 2 shows descriptive statistics for houses in the Bellbrook study area. The mean transaction price (PRICE) for these houses is \$97,012. The mean house age at the time of the transaction (AGE) is 27.4 years. The mean living space (SQFT) is 1,408 feet, and the mean parcel size (LOT) is 13,427 square feet.

Fairborn Area

The second cemetery in the study is situated on 22.3 acres near the eastern edge of Greene County's second largest city, Fairborn (population 51,390). The residential development is located south of the cemetery. The first house in the development, constructed on the southern boundary of the development, sold in 1996. Development proceeded to the north (toward the cemetery), with all the houses closest to the south side of the cemetery being sold between 2003 and 2006.

Transaction data could not be obtained for 28 houses (these lots were purchased unimproved from the developer), so the sample is restricted to the 244 observations that are arm's-length transactions of improved lots. The Fairborn area is the newest development of the study areas, and the developer dedicated a buffer zone between the development and cemetery that is approximately 200-feet wide (187 feet at the narrowest point) and fairly heavily wooded.

The deciduous trees in the buffer zone eliminate any view of the well-maintained cemetery from all but a few houses for approximately seven months of the year, but when the trees are bare, 46 houses have a full or partial view of the cemetery. There is no discernable difference in the house quality and condition in this study area; all are currently in above-average condition due, in no small part, to their relatively young age.

Table 3 shows that PRICE in this area is the highest of the four study areas. More houses in this area, 85.9%, have a basement (BASE) than the other study areas and all houses in this development have central air conditioning (AIR).

Beavercreek Area

The third cemetery investigated is situated on 8.7 acres near the southern edge of Greene County's largest city, Reavercreek (population 40,014). There are 103 houses located to the south and southwest and within 1,215 feet of the cemetery. The study is restricted to the 77 houses for which an arm's-length transaction of an improved lot could be identified.

The oldest house in the sample was built in 1900. All but three houses have been constructed since 1950, with the newest built in 2005. Residential development reached the western and southern border of this cemetery in 1956, when the first two of twelve houses that abut the cemetery were built. Transactions included in the sample occurred in 1962-2008.

There is no buffer zone between the residential development and this well-maintained cemetery, but only 18 of the sample houses have a full or partial view of the cemetery. Similar to the Bellbrook study area, house quality and condition in this area tend to improve with distance from the cemetery. Table 4 shows that the mean lot size in the Beaver creek area is the largest of the four study areas.

Xenia Area

The fourth cemetery is situated on 9.9 acres in the southwestern portion of Xenia, the county seat and the county's third-largest city (population 27,557). Two hundred houses, located north and east of the cemetery, are within 1,594 feet of the cemetery. The study is restricted to the 151 houses where an arm's-length transaction of the improved lot could be identified, 28 of which have a full or partial cemetery view.

Similar to the Fairborn study area, there is little difference in house quality within this study area. Almost all the houses in this sample are single-story, tract houses constructed in 1956-1958; none has a basement. Although house quality and condition at the time sale could not be ascertained, almost all houses in this sample were rated average at the time of the study. The oldest house was built in 1951 and the newest in 2000. Transactions included in the sample occurred in 1967-2008.

The maintenance condition of this cemetery can be generously described as moderate/average. There is no buffer zone between the residential development and this cemetery. The nominal transaction prices shown in Tables 2, 5, 4, and 5 are partially a function of the year in which the transactions occurred. Table 5 shows that the Xenia study area involves the lowest-valued houses of the four study areas.

Correlation of Variables

Table 6 contains the simple correlation of model variables for all four cemetery areas and shows that most of the explanatory variables are highly correlated with transaction price. There is high correlation among many of the independent variables (e.g., square footage, bathrooms, bedrooms, and basement).

What is surprising is the significant correlation between distance from a cemetery (DISTANCE) and every other variable. The correlations indicate that house size increases with distance from the cemetery. Houses located farther from the cemetery tend to have more garage space, bathrooms, and bedrooms, but lot size tends to decrease with distance from the cemetery.

The correlations also indicate that the farther a house is located from a cemetery in the sample, the greater the probability that the house has air conditioning and a basement. On the other hand, a significant simple correlation between whether a cemetery view is available from the house and the other explanatory variables does not exist.

The appendix section of this article provides the correlation coefficients for the individual study areas.

Methodology

In studies of the impact of externalities on real property values, regression analysis is frequently referred to as hedonic regression. This well-known and often-used technique facilitates the effective unbundling of the implicit value attributable to the physical and location-specific characteristics of a property from the sale price.

The methodology in this study has two basic parts. First, the data for all four study areas is combined and the following model is estimated to investigate whether housing prices are influenced by cemetery proximity: (17)

[MATHEMATICAL EXPRESSION NOT REPRODUCIBLE IN ASCII] (1)

where:

PRICE = the transaction price

[alpha] = the intercept

[beta] = the estimators

SALEYR = a variable equal to the year in which the house sold

e = the error term

All the other independent variables are as defined in Table 1.

Based on the results of previous studies, (18) a positive sign is expected on the estimator for SQFT, LOT, GAR, BATH, BED, AIR, and BASE, and a negative sign is expected for AGE. The expected sign for GAS is positive because it was the most affordable form of heat in the area over the study period and should be capitalized in house prices.

Preliminary analysis reveals that three variables designed to detect seasonality in selling prices are highly insignificant and they were dropped from the model. The REG Procedure (19) was used to estimate Equation 1 with the COLLIN option specified. The results of the COLLIN option indicate a moderate amount of multicollinearity is present. (20)

For the second part of the methodology in this article, Equation 1 is estimated separately for each cemetery. The estimate of the Fairborn data does not include AIR or GAS because each of the sample houses in this area has central air conditioning and gas heat. The estimate of the Xenia data does not include GAS or BASE because all houses in this area have gas heat and none has a basement. (21)

Results

The results of the present study are similar to the two previous cemetery proximity studies when, as was the case in the previous studies, all cemeteries are analyzed with a single estimate. Table 7 shows summarized estimation results of the full model; the data fits the model well.

The F-value is highly significant and the independent variables explain 92.29% of the variation in the dependent variable. Seven of the ten control variables are significant at the 99% confidence level. Focusing on the two variables of interest, the estimators for both VIEW and DISTANCE are highly insignificant, indicating that neither a cemetery view nor distance from a cemetery has a significant effect on nearby house price.

To investigate the possibility that the results may vary by cemetery, this study estimates Equation 1 separately for each area. The results for the Fairborn cemetery area are consistent with the full model results. Table 8 shows the summarized estimation results for the Fairborn cemetery area; the data fits the model well, the F-value is highly significant. The adjusted [R.sup.2] indicates that the model explains 78.14% of the variation in the dependent variable.

This figure is low compared to the [R.sup.2] reported for the full model, but recall that AIR and GAS have been dropped from this model because they are constants. Five of the eight control variables are significant at the 99% confidence level. Regarding the variables of interest, the estimators for both VIEW and DISTANCE are highly insignificant in this estimation, indicating that no price effect can be attributed to cemetery proximity.

A different result occurs when the analysis is limited to the Xenia cemetery area. Examination of the results, which are summarized in Table 9, shows that the data fits the model fairly well; the F-value is highly significant, and the model explains 70.11% of the variation in the dependent variable.

This is the lowest adjusted [R.sup.2] of any of the estimates, but this estimate does not include BASE or GAS because each is constant. Only one of the control variables is significant at the 99% confidence level; two more are significant at the 90% level, and the sign of the estimator for each of these variables is in the anticipated direction.

Recall that almost all the houses in this sample are nearly identical tract houses. It is interesting, therefore, that the estimation indicates only four factors are significantly related to house price: date when the house sold, age of the

house when the sale occurred, garage size, and whether the house has a cemetery view.

The estimator for VIEW is negative and significant at the 90% confidence level and indicates that houses with a cemetery view in this area sold, on average, at a discount of \$6,291.89 compared to those without a cemetery view. For the mean-priced house in this sample, this represents a discount of 10.1% (\$6,291.89/\$62,531.30). The variable DISTANCE is not significant in this estimate.

Table 10, where the estimation results for the Beavercreek cemetery area are presented, shows that the data fits the model well. The F-value is highly significant, and the adjusted [R.sup.2] indicates that the model explains 90.71% of the variation in the dependent variable. Four of the ten control variables are significant at the 99% confidence level, and three are significant at the 95% level. Focusing on the variables of interest, VIEW is insignificant, indicating no price effect can be attributed to this variable, but DISTANCE is significant at the 90% level.

The positive estimator for DISTANCE indicates that transaction price in this area increased by \$29.58, on average, for each additional foot the lot is removed from the cemetery. This result should occur if market participants systematically deem the negative factors associated with close cemetery proximity to dominate the positive factors, but this may not be the case here and there may be an alternative explanation.

Recall that casual observation indicated that property quality and condition in this study area improved with distance from the cemetery, so DISTANCE may actually be serving as a proxy for quality and condition. If this explanation is correct, there is a cemetery proximity effect associated with distance, but it is occurring not because market participants judged the disadvantages of close proximity to the cemetery to outweigh the advantages; it occurred because the original homeowners and/ or developers/builders constructed better-quality houses farther from, rather than closer to, the cemetery.

Table 11, where the estimation results of Equation 1 for the Bellbrook cemetery area are summarized, reveals that the data fits the model well. The F-value of 124.4 is highly significant and the adjusted [R.sup.2] indicates that the model explains 92.45% of the variation in the dependent variable.

Four of the ten property characteristic variables are significant at the 99% confidence level and four are significant at the 95% level. The sign of each of the significant explanatory variables is in the expected direction, and each appears reasonable in amount. Both of the variables of interest are significant: VIEW at the 90% confidence level, and DISTANCE at the 95% level.

The results indicate that buyers in this area value the park-like view. A cemetery view added \$8,521.46 on average to the transaction price for houses with a cemetery view. For the mean priced house in this sample, this represents a premium of 8.8% (\$8,521.46/\$97,012.30).

The estimator for DISTANCE indicates that residential property values increased by \$8.10 for each foot the lot was removed from the cemetery. As was the case for the Beavercreek cemetery area, casual observation indicates that property quality and condition in this study area improve with distance from the cemetery; here again it is believed that DISTANCE is acting as a proxy for house quality and condition and the effect is occurring because the original homeowners and/or developers/builders constructed better quality houses farther from rather than closer to the cemetery.

Conclusion

The characteristics of cemeteries that may influence value are presented in this article and suggest that the influence of a particular cemetery on nearby residential properties is uncertain. To empirically test this issue, data from 575 sale transactions of houses in relatively close proximity to one of four cemeteries is subjected to regression analysis.

In five iterations, transaction price is regressed against a battery of property characteristic variables to control for price differences. Transaction price is also regressed against two variables of interest, DISTANCE, specified as the shortest straight-line distance between the cemetery and the lot on which the subject house is located; and VIEW, specified as the ability to view the cemetery from the subject property.

When all observations are tested in a single model, the results are consistent with the limited previous studies on this topic--no significant price effect attributable to cemetery proximity is discovered. When each cemetery is tested individually, however, the results vary. For two cemeteries, no price effect can be attributed to VIEW. For a third cemetery, the estimator for VIEW is a negative \$6,291.89, but for a fourth cemetery, the estimator for VIEW is a

positive \$8,521.46. For the mean priced house in each sample, the former represents a 10.1% discount and the latter represents an 8.8% premium.

The sign of the estimator in each of these two instances is intuitively appealing because the positive estimator is associated with a well-maintained cemetery, and the negative estimator is associated with a less well-maintained cemetery. The fact that the results vary by cemetery suggest the possibility that previous studies might have arrived at different conclusions if they had not grouped all cemeteries into a single model. The fact that VIEW is significant in two of the four samples investigated here suggests that previous models may have used the wrong criteria in testing for market effects due to cemetery proximity; VIEW may be more important than DISTANCE.

DISTANCE is insignificant in two of the four study areas. In both of these cases, almost all sample houses are constructed within a relatively compact Lime frame and house quality and condition do not vary within the study area. In the other two samples, house construction took place over a protracted period of time and it is observed that property quality and condition tend to improve with distance from the cemetery.

In these two cases, the estimator for DISTANCE is a positive \$8.10 per foot in one case and \$29.58 per foot in the other. The interpretations of these findings is that DISTANCE is actually serving as a proxy for house quality and condition in these two cases. This suggests that the effect occurred not because market participants judged the disadvantages of close proximity to outweigh the advantages, but because the original homeowners and/or developers/builders constructed better quality houses farther from rather than closer to the cemetery.

Cemetery proximity should not be ignored by residential appraisers in arriving at a value estimate. It is possible cemetery proximity will have no significant impact on nearby residential property values, but as the present study indicates, it may. It is recommended, therefore, that appraisers test their local area to determine if cemetery proximity market effects are present.

Unfortunately, data restrictions prevented the testing for another important market effect--time on market. Time on market is more likely to be influenced by cemetery proximity than price. Extensions of this research, therefore, could examine not only whether the results reported here apply in other markets, but also whether cemetery proximity impacts time on market.

Appendix 1 Correlation Coefficients, Bellbrook Cemetery Area

	SQFT	LOT	AGE	GAR	BATH	BED	AIR
PRICE	.6178 <.0001	.2025 .0253	.0435 .6345	.2391 .0080	.5543 <.0001	.3430 .0001	.2152 .0173
SQFT		.2461 .0063	.4490 <.0001	.2019 .0257	.6604 <.0001	.5693 <.0001	.1973 .0294
LOT			.1509 .0971	.1023 .2623	.2059 .0229	.1103 .2264	.0593 .3465
AGE				.0617 .4994	.3369 .0001	.2343 .0094	.0593 .5167
GAR					.1426 .1172	.0246 .7875	.0842 .3566
BATH						.3688 <.0001	.2749 .0022
BED							.2042 .0240
AIR							
GAS							
BASE							
SALEYR							
VIEW							
	GAS	BASE	SALEYR	VIEW	DISTANCE		
PRICE	.0105 .9089	.4717 <.0001	.7429 <.0001	.2245 .0129	.09185 .3143		
SQFT	.1194	.4804	.1286	.1397	.0053		