STAFF REPORT
DATE:10/16/2024
ITEM #:
Regular

TO: Lake Elmo Planning Commission
FROM: Nathan Fuerst, AICP, Consulting Planner
AGENDA ITEM: **Lake Elmo Elementary - Conditional Use Permit, Variance, and Preliminary Plat**
REVIEWED BY: Jason Stopa, Community Development Director
Sophia Jensen, City Planner

BACKGROUND:

As a result of an assessment of school facility needs, Stillwater Area Public Schools (ISD 834, hereafter referred to as the "School District") has identified the need for a new elementary school facility in Lake Elmo's South Planning Area. The School District has identified the subject property as a preferred location for a new elementary school to replace the aging Lake Elmo Elementary located Northeast of the intersection of Lake Elmo Blvd N. and Stillwater Blvd. N.

On March 6, 2024, the City Council approved an amendment to the City's Comprehensive Plan and Zoning Map to allow for the establishment of the public-school use on the subject property. Since that time, the School district's team has been compiling detailed development plans for the site.

The following applications represent entitlements required for this project:

1. **Conditional Use Permit (CUP)** – The Public Facilities zoning district requires a CUP for this use, a public school. The CUP will cover use of the entire site.
2. **Subdivision** – The School District's is proposing to develop an unplatted property. Consistent with other development, the School District is required to plat the property through the major subdivision process, this is due to the previously unknown need for public right of way dedication and improvements.
3. **Variance –** Variances to the maximum lot area in the PF District and location of a drive in a buffer area are required.

ISSUE BEFORE THE PLANNING COMMISSION:

Should the Planning Commission recommend the City Council approve the CUP, Subdivision, and Variance requests to allow the Oak Land Middle School Expansion?

REQUEST DETAILS:

Applicant/Owner:	Stillwater Public Schools (ISD 834)
Location:	PID 26.029.21.44.0001
Zoning District:	Public Facilities
Future Land Use:	Institutional

Deadline for Action: Application Complete: 8/23/2024
120 Day Deadline: 12/21/2024

PROPOSAL DETAILS/ANALYSIS:

Site Data.

Total Site Area	47.59 acres
Wetlands	None

Environmental Review. This project does not trigger a mandatory Environmental Assessment Worksheet under Minnesota Rules 4410.4300. No further environmental review is required.

Bulk Standards.

Standards 105.12.970(f)(1)	Requirement (with structure):	As Proposed
Maximum Lot Area	20 acres	47.59 acres
Minimum Lot Width	100’	~1253’
Minimum Lot Depth	150	~1485’
Max Impervious Cover	32%	18.01%
Minimum Setback - Front	50 feet	~170’, 380’
Minimum Setback - Side	50 feet	140 feet
Minimum Setback - Corner	50 feet	N/A
Minimum Setback - Rear	50 feet	~775’ feet
Maximum Height	50 feet	34’
Driveway Setback from intersection	50 feet from r-o-w	~1/4 mile
Driveway setback from side lot line	5 feet	38’ & 326’
Driveway Width	20 – 34’ feet	34’

Land Use Conformance. The subject property received a comprehensive plan amendment and rezoning approval through Resolution 2024-029 and Ordinance 2024-07, respectively, on March 6, 2024. The proposed land use, a public school, is consistent with the future land use, Institutional, and zoning district, Public Facilities, where it is a conditional use.

Minimum Lot Area. The Lake Elmo Elementary School site is comprised of one parcel 47.59 acres in area. This is above the City’s maximum lot area of 20 acres. Because the school is seeking to subdivide this property as required by the City, the City has also required a variance be approved to the 20 acre maximum. Staff support a variance to the City’s maximum lot size due to the fact that a great majority of this property is encumbered by the buffer for the Oakdale Gun Club. Additionally, as this property is located at the intersection of two county roads, there are significant distances required for the two entrances from that intersection, reducing the ability to subdivide this property in a manner more conforming with the City’s ordinance.

MN Shooting Range Protection Act: In May 2005, Minnesota Governor Tim Pawlenty signed into law the Shooting Range Protection Act. It became effective on May 28, 2005, becoming Minnesota Statutes,

Chapter 87A. This Statute protects existing shooting ranges from becoming noncompliant as a result of adjacent development. State law establishes a 750 foot buffer from the shooting range property boundary. In that area, the law prevents the establishment of any land use which would cause the shooting range to become nonconforming with the performance standards for shooting ranges which were adopted by reference in state statute.

The elementary school is proposed on a parcel abutting a portion of the Oakdale Gun Club. When the application was initially discussed, City staff explored this issue and reviewed the performance standards for shooting ranges in person at the MN DNR's Central Office. Staff's initial finding was that the only performance standard requiring further review was statutory noise limits created by State Statute 87A.05 Noise Standards.

The Stillwater Area School District was required to submit a noise study which tested the noise levels generated by the Oakdale Gun Club to determine whether the establishment of any new uses on site would be over the allowable levels in statute. The noise study, completed by Veneklasen Associates, measured noise levels at four different locations in the 750' buffer area. Measurements were taken during the week after the 4th of July, when the Oakdale Gun Club is open to the general public and therefore it's busiest time of year. The Study concludes that the noise generated at all four testing locations is below the maximum levels in state statue for a Public School, which has the most sensitive Noise Area Classification (NAC) in statue.

Staff have required that the noise study be revised to include an assessment of sound levels at the testing locations during the fall period with leaf-off conditions when higher caliber rifles are typically used more frequently at the Oakdale Gun Club. A revised report has not been delivered with this data at the time of writing this report.

Tree Preservation. The subject property is heavily wooded with many qualifying significant trees requiring protection under the City's ordinance. A significant amount of the trees on this parcel will need to be removed for the School District's proposed improvements, with removals mostly concentrated on the east half of the site. Tree removals are proposed in part due to a need for mass grading to allow improvements such as stormwater management, drives, parking areas, ball and recreational fields, and the school building.

The School District has proposed an exception to the City's Tree Mitigation Standards under LEC 105.12.460 (f). The rationale is that the former property owner, who had owned the property for over three decades, planted the majority of trees on site between 1990 and 2003. In the areas on site where the previous owner planted trees, they were planted in a grid-like pattern similar to tree farms in terms of species composition and planting proximity.

The City's ordinance allows for exceptions to tree mitigation requirements if all the following conditions exist:

A. It is not feasible to combine the subject parcel with adjacent parcels that could use the parcel as required green space;
B. Strict adherence to the City's tree preservation and replacement standards would prevent reasonable development that is consistent with the Comprehensive Plan and desirable to the City on the parcel; and

C. The exception requested is the minimum needed to accomplish the desired development or redevelopment.

The City Council may provide partial or full relief to tree mitigation requirements under LEC 105.12.460. The City may consider multiple forms of relief, depending on which form of relief best balances the objectives of the City and tree preservation. The City may also require payment of a fee-in-lieu of tree replacement.

Summary of Tree Mitigation Data:

- Total Significant Tree Caliper inches on site (existing) = 29,296
- Total Significant Tree Caliper inches to be removed = 21,392
- Total Significant Tree Caliper inches planted by Previous Owner = 27,327
- Total 'Previous Owner Planted' Significant Inches Removed = 20,653

Mitigation Required Without Exception

- Total Significant Tree Caliper inches on site (existing) = 29,296
- 30% Allowable Removal (caliper inches) = 8,788
- Total Significant Tree Caliper inches to be removed = 21,392
- Mitigation Required without Exception = 12,603
- Cash in Lieu Fee ($325/caliper inch) = $4,095,975

Mitigation Required With Exception

- Total Significant Tree Caliper inches on site (not planted by previous owner) = 1969
- 30% Allowable Removal (caliper inches) = 590
- Total Significant Tree Caliper inches to be removed (not planted by previous owner) = 739
- Mitigation Required without Exception = 149
- Cash in Lieu Fee ($325/caliper inch) = $48,425

The City's Landscape Architect's 9/12/2024 review memo requires further clarification of tree removal data to understand the requirements for replacement. Staff recommend consideration of a fee of $325 per unmitigated caliper inch, but not to exceed $50,000, in exchange for flexibility provided through the exception requested for this project.

Landscaping. The City's Landscape Architect has reviewed the planting plan for conformance with the City's ordinance and commented on necessary plan revisions in their 9/12/2024 review memo. The Applicant will need to recalculate the total number of trees that are required for tree mitigation. Additional information such as provisions for irrigation, species diversity requirements, and other details will be required in a future resubmittal.

A condition of approval is added requiring conformance to the City Landscape Architect's Memo.

Buffering and Screening. City Code Section 105.12.970 (f)(2) requires a 150-foot buffer from abutting residential properties. While the school building and nearly all site improvements meet the building setback requirement, a driveway access for the busses will be located within 38' of the northern property line. The parcel immediately to the north is undeveloped but is zoned Rural Single Family. This necessitates a variance to the buffering standard. Key rationale include mandatory access spacing

requirements for safety along Lake Elmo Avenue, and that the nearest home to the north of the proposed drive is over four hundred feet away.

Trees are proposed in the landscaping plan to line the school's northern driveway access and would help to recreate the vegetative buffer along with existing vegetated areas that will be preserved.

Building Design. Elevations submitted with the site plans indicate a new school building which is designed with primary materials including brick, glass, and architecturally treated metal. In its design, the building has facades which vary in design with contrasting building materials and colors and creates visual interest. The building materials and façade elevations proposed are consistent with the City code and design standards manual for such structures and are therefore found acceptable.

Parking. City code requires three spaces per classroom. There are 53 rooms that are classrooms or an equivalent learning space. Therefore, a minimum of 159 parking spaces are required. There are a total of 211 parking spaces supplied in in the southern parking area, and a total of 13 adjacent to the bus parking to create a total on site of 224 spaces. This site meets the parking minimum established by code.

Winter performance of the parking lot is an important consideration for safety and the reduction of chloride use. The following suggestions are made to improve performance:

- Snow storage areas should be identified on grading plans.
- Grading of snow storage areas should be considered in order to reduce meltwater sprawl onto surfaces treated with chlorides.
- Tree plantings and other landscaping should be carefully located such that plantings are not destroyed by winter maintenance activities or salt from snow piles.

Traffic and Access. This project is served by two county roads, Lake Elmo Avenue North and 10th Street North. A traffic study was required and supplied by the Applicant. Both the study and site plans have been reviewed by the City Engineer and Washington County for issues related to traffic and access.

Washington County will ultimately require an access permit for the use and is the responsible jurisdiction for county roads. Washington County has provided the following requirements in its letter which are paraphrased here for brevity:

1. Turn Lanes are required for both access points.
2. Queuing on to county roads will not be permitted. Washington County is now planning to improve the intersection of CSAH 10 and 17 in 2028.
3. A traffic light or roundabout is required at the entrance to the School (10th ST. N. entrance) this will be expected at the School District's cost.
4. The bus entrance on Lake Elmo Avenue may be restricted to a ¾ access intersection with northern 'left-outs' prohibited.
5. Queuing on county roads will be prohibited.
6. It is suggested that the School District provide options for safe walking routes to school for students who wish to do so.

The City Engineer provided a review memo dated 9/23/24 with the following comments related to Transportation Improvements and Access:

1. Access Management. The Proposed access locations along both Lake Elmo Avenue (CSAH 17) and 10th Street (CSAH 10) must be approved by Washington County.
2. Turn Lane Improvements. As part of the site improvements, dedicated right and left turn lanes must be constructed along Lake Elmo Avenue (CSAH 17) and 10th Street (CSAH 10) at both access locations. Turn lanes must be constructed meeting Washington County standards.
3. Intersection Control Improvements. Traffic Control Improvements must be included as part of the site improvements for the opening of the school as recommended by Washington County. A traffic signal is required at the new access location along 10th Street North (CSAH 10), complete with crosswalks. A temporary wood pole traffic signal, or alternate traffic control improvement approved by Washington County, is required at the intersection of Lake Elmo Avenue (CSAH 17) and 10th Street (CSAH 10), compete with crosswalks.
4. Emergency Service Access. Emergency vehicle access to and throughout the site must be reviewed and approved by the Lake Elmo Fire Department.
5. Bituminous Trails. The site improvements include the construction of a bituminous trail along the east and south sides of the site along Lake Elmo Avenue and 10th Street. The grading plans should be revised to eliminate the drainage swale obstruction that will impeded any future extension of the trail to the west along 10th Street. Consideration should also be given to the provision of pedestrian connectivity internal to the school property and connection to the County Park Preserve.

Due to the fact that Washington County is planning improvements at the intersection of Lake Elmo Avenue and 10th Street North, City staff anticipates that there will be additional future costs to the City that must be accounted for. With the County's cost share policy, the primary costs to the City would be the right of way acquisition and stormwater management. Due to the new Lake Elmo Elementary at this location, the County has accelerated plans for infrastructure improvements to improve service after determining improvements necessary due to the traffic study. The City's staff suggest the following requirements to address cost impacts to the City:

1. The Plat shall dedicate right of way as needed for future county intersection improvements.
2. The School District shall design the stormwater ponds to accommodate the needs for stormwater management at the new intersection of CSAH 10 & 17.
3. The City will require a cost participation from the Applicant at no more than 50% of the City's cost or $250,000, whichever is less, to account for the costs of the future intersection improvements at County Roads 10 & 17.

CONDITIONAL USE PERMIT FINDINGS: City Code Section 105.12.290(a) provides findings required for Conditional Use Permit approval. Staff recommends the following findings:

1. The proposed use will not be detrimental to or endanger the public health, safety, comfort, convenience or general welfare of the neighborhood or the city. ***Approval of a conditional use permit should not be detrimental to or endanger the public health, safety, comfort, convenience or general welfare of the neighborhood or City. The City has required that the Applicant submit evidence to determine impacts on woodlands, traffic, and noise.***
2. The use or development conforms to the City of Lake Elmo Comprehensive Plan. ***This use is consistent with the Comprehensive Plan as amended by Resolution 2024-029.***
3. The use or development is compatible with the existing neighborhood. ***The proposed land use, an elementary school, is permitted as a conditional use and is compatible with surrounding residential development.***

4. The proposed use meets all specific development standards for such use listed in Article 15 of this Chapter. ***The conditional use permit amendment meets all specific development standards of Article 15. Variances to the lot area maximum and buffer distances are proposed.***
5. If the proposed use is in a flood plain management or shoreland area, the proposed use meets all the specific standards for such use listed in Chapter 105.12.1260 (Shoreland Regulations) and Title 100 (Flood Plain Management). ***The proposed uses will not be within the floodplain, and the property does not fall within the City's shoreland overlay district.***
6. The proposed use will be designed, constructed, operated and maintained so as to be compatible in appearance with the existing or intended character of the general vicinity and will not change the essential character of that area. ***The proposed new building is designed to be compatible with the City's design standards.***
7. The proposed use will not be hazardous or create a nuisance as defined under this Chapter to existing or future neighboring structures. ***It is not anticipated for the use to become a nuisance as the site will meet applicable performance standards.***
8. The proposed use will be served adequately by essential public facilities and services. ***The Applicant has requested a utility feasibility study and intends to connect the parcel to the public sewer system as required under the City's ordinance. Washington County and City engineering staff have suggested conditions of approval that would mitigate impacts expected to county roadways.***
9. The proposed use will not create excessive additional requirements at public cost for public facilities and services and will not be detrimental to the economic welfare of the community. ***The use will provide an expanded capacity to serve area residents with educational services. Intersection improvements, or cost participation in future improvements required due to this use, are required by the City to mitigate City costs on public infrastructure improvements.***
10. The proposed use will not involve uses, activities, processes, materials, equipment and conditions of operation that will be detrimental to any persons, property or the general welfare because of excessive production of traffic, noise, smoke, fumes, glare or odors. ***The use will not produce excessive noise, smoke, fumes, glare or odors. Washington County and City engineering staff have suggested conditions of approval that would mitigate impacts expected to county roadways.***
11. Vehicular approaches to the property, where present, will not create traffic congestion or interfere with traffic on surrounding public thoroughfares. ***Washington County and City engineering staff have suggested conditions of approval that would mitigate impacts expected to county roadways.***
12. The proposed use will not result in the destruction, loss or damage of a natural or scenic feature of major importance. ***The proposed expansion will meet applicable performance standards. Environmental features on site will be preserved where possible, with most tree occurring on the east side of the property.***

SUBDIVISION FINDINGS.

The process for review of subdivisions is established in Title 103 of City Code. To approve a Preliminary Plat, the City shall make the determination that the project **does not meet** the findings for denial established in code section 103.00.090(d)(2) as follows:

a. That the proposed subdivision is in conflict with the city's comprehensive plan, development code, capital improvements program, or other policy or regulation.
b. That the physical characteristics of the site, including, but not limited to, topography, vegetation, susceptibility to erosion and siltation, susceptibility to flooding, water storage, and retention, are such that the site is not suitable for the type or intensity of development or use contemplated.
c. That the design of the subdivision or the proposed improvements are likely to cause substantial and irreversible environmental damage.
d. That the design of the subdivision or the type of improvements will be detrimental to the health, safety, or general welfare of the public.
e. That the design of the subdivision or the type of improvement will conflict with easements on record or with easements established by judgment of a court.
f. That the subdivision is premature as determined by the standards of this title.

VARIANCE FINDINGS.
An applicant must establish and demonstrate compliance with the variance criteria set forth in Lake Elmo City Code Section 105.12.320 before the City may grant an exception or modification to city code requirements. These criteria are listed below, along with comments from Staff about the applicability of these criteria to the applicant's request. Staff recommends the following findings:

1) Practical Difficulties. A variance to the provision of this chapter may be granted by the Board of Adjustment upon the application by the owner of the affected property where the strict enforcement of this chapter would cause practical difficulties because of circumstances unique to the individual property under consideration and then only when it is demonstrated that such actions will be in keeping with the spirit and intent of this chapter. Definition of practical difficulties - "Practical difficulties" as used in connection with the granting of a variance, means that the property owner proposes to use the property in a reasonable manner not permitted by an official control.
Parcel Size: ***The use proposed by the Applicant will be on a property of 47.59 acres less required right of way dedication. The lot area variance is needed due to the desire to locate uses on site outside of the buffer established around the Oakdale Gun Club property, and the need to locate accesses at acceptable distances from the intersection of CSAHs 10 & 17.***

Buffer: The northern driveway access to Lake Elmo Avenue is proposed with a distance of approximately 38 feet from the northern lot line. Due to the requirement to meet access spacing requirements intended to protect public safety, the access should not be moved any further south. In the proposed location of the drive is approximately 400 feet away from the residence to the north.

2) Unique Circumstances. The plight of the landowner is due to circumstances unique to the property not created by the landowner.
Parcel Size: ***The Applicant is not proposing to expand the area of the property. The existing conditions on site were not created by the Applicant.***

Buffer: ***The Applicant is proposing accesses that are responsive to Washington County engineering requirements and cannot move the northern drive out of the buffer area.***

3) Character of Locality. The proposed variance will not alter the essential character of the locality in which the property in question is located.
Parcel Size/Buffer: ***The variances will not impact the essential character of the area. The request meets the City's design standards.***

4) Adjacent Properties and Traffic. The proposed variance will not impair an adequate supply of light and air to properties adjacent to the property in question or substantially increase the congestion of the public streets or substantially diminish or impair property values within the neighborhood.
Parcel Size/Buffer: ***The variance should not impair adjacent properties. Washington County and City engineering staff have suggested conditions of approval that would mitigate impacts expected to county roadways.***

AGENCY REVIEW:

This request was distributed to several departments and agencies for review on Wednesday, August 7th, 2024. The following review comments are noted:

- Fire Department Memo (9/18/2024) Provided comments regarding drive lanes, fire detection and suppression, building addressing, and gates/locks/access.
- City Engineer Memo (9/23/2024) Provided comments regarding impervious surface, water connection, grading, transportation and stormwater. Engineering requested more detailed plans.
- City Landscape Architect Memo (9/12/2024) Provided comments on revisions need to the tree mitigation and landscaping plans.
- Washington County DOT Memo (9/18/2024) Provided comments regarding development plan and required intersection improvements.
- Valley Branch Watershed District – Email received 9/18/2024 indicated that the school district is working with VBWD on permitting and review requirements.

Conditions of approval have been included to address agency review comments where applicable.

RECOMMENDED CONDITIONS OF APPROVAL:

1. The Applicant must enter into a Development Agreement, in the City's Standard Form, prior to issuance of a notice to proceed or any building permit for work on site.
2. Prior to the City signing or approving recording of the Final Plat or Development Agreement, the Applicant shall fully address all comments in the following review memos, or any subsequently revised memo, to the satisfaction of the City:
    a. City Engineer's memo dated September 23, 2024,
    b. City Landscape Architect's memo dated September 12, 2024,
    c. City Fire Chief's memo dated September 18, 2024.
    d. City Attorney's Plat Opinion.
    e. Washington County Engineering memo dated September 18, 2024.
3. The Applicant may not allow any queuing of traffic accessing this site from occurring on the abutting County Roads 10 (10th Street N.) and 17 (Lake Elmo Ave. N.).
4. The Conditional Use Permit approval is contingent upon the Applicant constructing all intersection improvements required by Washington County and the City Engineer, including but not limited to turn lanes, traffic signals, and crosswalks.
5. The Plat shall dedicate right of way as needed for future county intersection improvements.

6. The Applicant shall design the stormwater ponds to accommodate the needs for stormwater management at the new intersection of CSAH 10 & 17.
7. The City will require a cost participation from the Applicant at no more than 50% of the City's cost or $250,000, whichever is less, to account for the costs of the future intersection improvements at County Roads 10 & 17.
8. The Applicant shall pay an in-lieu fee of $325 per caliper inch for unmitigated tree removal on site, up to a total of $50,000.
9. After establishment of the use on site, any grading or removal of healthy specimen trees in required buffer areas, including the buffer of the Oakdale Gun Club, shall be reviewed by the City against applicable design standards.
10. Upon substantial completion of the project, as defined in the required development agreement, the school building must be connected to water and sewer.
11. The applicant must provide plans for the water and sewer connection to the satisfaction of the City Engineer, Public Works Director, and Fire Chief prior to the release of the building permit.
12. Water and Sewer Availability Charges, and other fees as applicable, must be paid prior to issuance of a building permit.
13. All city, state, or other necessary permits must be obtained prior to the release of the building permit.
14. Substantial construction must take place within 12 months of the date on which the conditional use permit was granted, and the Applicant must otherwise comply with provisions of Section 105.12.290 Conditional Use Permits.

PUBLIC COMMENT:

Notice of a public hearing was sent to surrounding property owners and published in the Stillwater Gazette. The Planning Commission will hold a public hearing on October 16, 2024. At the time of writing this report, the City has not received any public comments on this project.

OPTIONS:

The City may:

- Approve the request;
- Approve the request with conditions (staff recommendation);
- Deny the request citing findings of fact for denial.

RECOMMENDATION:

The Planning Commission is asked to consider the requests. Staff recommend that the Applicant's requests be approved by the City based on compliance with relevant criteria established in the City's Plans and Ordinance. Below is the recommended motion:

"Move to recommend City Council approval of the Conditional Use Permit, Variances, and Preliminary Plat requested for the Lake Elmo Elementary School proposed by Stillwater Area Public Schools, ISD 834, with the conditions and findings listed in the staff report."

ATTACHMENTS:

1. Submittal Package
2. City Engineer Memo (9/23/2024)
3. City Fire Dept Memo (9/18/2024)

4. City Landscape Architect Memo (9/12/2024)
5. Washington County DOT Comments (9/18/2024)

MEMORANDUM

To: Nicole Miller, City Administrator, Lake Elmo

From: Paul Aplikowski | PA

Date: August 23, 2024

Comm. No: 232224

Subject: Independent School District #834
Submittal to City of Lake Elmo on behalf of Stillwater Area Public Schools, for the proposed New Lake Elmo Elementary School project, located at the intersection of Lake Elmo Avenue North and 10th Street North, Lake Elmo, Minnesota (Property ID #2602921440001)

Conditional Use Permit, Preliminary Plat, and Variance Submittal Narrative:

On behalf of Stillwater Area Public Schools, we are submitting for City staff review a Conditional Use Permit, Preliminary Plat, and Variance application for the proposed new Lake Elmo Elementary School. Stillwater Area Public Schools is excited to continue to serve elementary-aged students at a larger school within the city of Lake Elmo. The proposed 1,100-student elementary school building would replace the current Lake Elmo Elementary School located at 11030 Stillwater Boulevard, Lake Elmo, Minnesota. The new building is proposed to be a total of 148,700 square feet and will be predominately a two-story structure. The building will staff about 130 employees. The anticipated school day schedule is currently planned to be from 7:45 a.m. – 2:15 p.m. Projected mobilization, ground-breaking, and building construction is planned to commence in Spring of 2025. Construction is expected to be completed by August 2026.

Since the initial sketch plat application, the zoning of the parcel has been revised from Agricultural (A) to Public Facilities (PF) and the comprehensive plan has been updated to amend future land use from Rural Area Development (RAD) to Institutional (INST) as well as adjusting the MUSA boundary to include this site. As the subject site to be developed is over the maximum size of 20 acres, we are now requesting a variance to develop the entire 47.6-acre parcel.

In reaction to the city and county comments that were received on the initial sketch plat application, the proposed site plan has gone through several iterations. Included in these changes are the addition of trails on the south and east sides of the parcel and moving the bus parking entry further north to comply with the required quarter-mile separation from an intersection. Also, based on the submitted traffic study, the internal vehicle stacking has been increased to keep car queuing off the adjacent roads.

As requested, a sound study of the site has been conducted and the site has been found to be in compliance with sound codes. Given the receptor type, the modified MPCA code criterion is that the sound level at the property line (or anywhere on the project) cannot exceed a sound level of 63 dBA when measured over a period of one hour. The loudest hourly sound level that was measured was 55 dBA attributable to gun club activities at the closest measurement location at the property line. As sound decays with distance, the decibel level continues to drop the further the observer gets from the source. Additionally, all locations of all sound sensors were reviewed and approved by city staff prior to the start of sound data collection.

Also included in this submittal is the completed traffic study which was previously submitted to the City along with the Oak-Land Middle School submittal currently under review.

Wold Architects and Engineers
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldae.com | 651 227 7773

Item A. A listing of contact information including name(s), address(es), and phone number(s) of the: owner of record, authorized agents or representatives, engineer, surveyor, and any other relevant associates.

Response:

Independent School District #834 Staff:

Maria Schrul, Executive Director of Finance
1875 South Greeley Street, Stillwater, MN 55082
(651) 351-8321

Mark Drommerhausen, Executive Director of Operations
1875 South Greeley Street, Stillwater, MN 55082
(651) 351-8379

Anthony Willger, Manager of Facilities and Site Operations
1875 South Greeley Street, Stillwater, MN 55082
(651) 351-8374

Design and Construction:

Paul Aplikowski, Wold Architects & Engineers
332 Minnesota Street, Saint Paul, MN 55101
(651) 227-7773

Valerie Peterson, Wold Architects & Engineers
332 Minnesota Street, Saint Paul, MN 55101
(651) 227-7773

Greg Buchal, Larson Engineering (Civil Engineer)
3524 Labore Road, White Bear Lake, MN 55110
(651) 481-9120

Gary Zifko, Kraus-Anderson
501 South Eighth Street, Minneapolis, MN 55404
(612) 332-8940

Cornerstone Land Surveying
1970 Northwestern Avenue, Suite 200, Stillwater, MN 55082
(651) 275-8969

Item B. A listing of the following site data: address, current zoning, parcel size in acres and square feet, property identification number(s), and current legal description(s).

Response:

Address: Northwest corner of Tenth Avenue North and Lake Elmo Avenue North, Lake Elmo, Minnesota 55042
Zoning: PF – Public Facilities
Property Identification Numbers: #2602921440001
Parcel size: 2,072,859 square feet 47.6acres
Current Legal Description: Section 26 Township 029 Range 021 PT OF S1/2 OF SE1/4 BEING E 1570.4 FT

Item C. A narrative regarding the history of the property (current and past used) and any pre-application discussions with staff.

Response:
Please refer to the above narrative.

Item D. A specific written description of the proposed use(s).

i. Incorporate information describing how the use will work on the proposed site including proposed site changes, existing open spaces, landscaping, traffic circulation, transition areas to adjacent properties, individual uses for existing and proposed structures, and effects on natural areas (wetlands, forests, etc.) both on-site and in the general vicinity of the project.
ii. Provide specific details about the use including the number of employees, hours of operation, maximum number of animals (if applicable), proposed development schedule, etc.

Response:
Please refer to the above narrative.

Item E. Provide justification that the proposed use meets the following findings:

i. The proposed use will not be detrimental to or endanger the public health, safety, comfort, convenience or general welfare of the neighborhood or City.
ii. The use or development conforms to the City of Lake Elmo Comprehensive Plan.
iii. The use or development is compatible with the existing neighborhood.

Response:
Please refer to the above narrative.

Feel free to contact Wold Architects and Engineers or the District with any questions or concerns you may have.

AM/MN-EDU-ISD834/ES_New Lake Elmo/232224/_Admin/2024.08.23 Memo to Nicole Miller

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110-5126
651.481.9120 Fax: 651.481.9201
www.larsonengr.com

Larson

MEMORANDUM

To:	City of Lake Elmo	Date:	August 20, 2024
From:	Larson Engineering	Project No:	12236128.000
Project:	New Lake Elmo Elementary School		

Thank you in advance for reviewing our request for an exception to the City of Lake Elmo's Tree Preservation and Replacement Ordinances. Stillwater Area Public Schools is planning to construct a new elementary school within the City of Lake Elmo. This school will be designed to accommodate 1,100 students and will benefit the local community and meet the requirements set forth by the City of Lake Elmo.

This Memo provides specific design aspects from an engineer's perspective of the site and outlines design decisions and explains why the New Lake Elmo Elementary is impacting such a large number of trees and why the school is looking to receive an exception for tree preservation.

When designing a new school, one of the first considerations is the proposed layout of the site. There are quite a few elements that go into the initial consideration of a site layout such as potential access points to the site, adjacent parcel uses & zoning designations, drainage patterns, existing wetlands/landlocked basins, and grading. Listed below are major design factors that were identified when designing the site layout the proposed elementary school.

- Access Points & County Road: Since the first concept design of the site, the layout intended to have two entry points to access the site. The reason for two access points was to separate student drop-off/teacher parking from the entry that services the school busses and trucks for deliveries. This practice promotes far greater safety throughout the site as the school district can better regulate the flow of traffic through their site. These entry points need to be roughly a quarter mile from intersection of Lake Elmo Ave North and 10 Street North which is a standard county requirement to promote safety at intersections and allow traffic queuing at the intersection without inhibiting the access points. In addition, trails are required along both County Roads to service the local community.

- Adjacent Parcels: Parcels directly abutting the proposed new school site consist of either residential homes, public park, or a gun club. The gun club was the primary concern after reviewing the adject parcels.

- Drainage Patterns, Wetlands, and Landlocked basin: The existing site is broken down into two major drainage areas that split the site from roughly its northwest corner to its southeast corner. These drainage areas flow to landlocked basin located on the site. A landlocked basin is low area where water flows to and has no way of escaping even is major rainfall events, these lowland areas would have to fill up with stormwater around 15-20 feet over a vast area to have any chance of leaving the site. There were no wetlands identified on the parcel.

- Grading: The existing site has a vast variation in grades as the high point of the site is over 46 feet of vertical difference from the low point of the site and there are relatively no flat areas other than the northwest corner of the site.

The design factors above all have significant impact on design of the site and overall impact on the trees. The next section will directly outline how each of these design criteria impacted the tree preservation of the site.

- Access Points & County Road: These entry points to the site provide roughly a quarter mile separation from intersection of Lake Elmo Ave North and 10 Street North as this is a standard with Washington County. Both of proposed locations enter the site in highly wooded areas. The entry on the northeast side of the site off of Lake Elmo Ave North has no flexibility in its location as it cannot be pushed further North as it's already near the edge of the property and it also can't push further south at its already just under the Washington County's desired quarter mile spacing from the intersection and the County will prohibit moving the entry any further south. The entry on the south side of the site off of 10th Street North has the flexibility to move further West but would impact an existing right turn lane but not further east due to Washington County's desired quarter mile spacing from the intersection. The proposed design kept the south entry as east as possibly as this design option would have the east impact on trees.

  In Addition to the access points a trail was required on the south and east side of the property adjacent to the county roads this requirement was from both the County and the City of Lake Elmo. Due to the existing topography adjacent to the county road the proposed trail required the design had to make significant modifications to the topography alongside the county road. The topography was revised to provide both a trial consistent with City and County standards and also to create a new drainage way for the runoff from the county road that would not inhibit the trail, this had significant impacts on the existing trees due to the revised topography.

  Image #1 and Image #2 below depict the access points and trail that service Lake Elmo Ave North and 10TH Street North

Image #1

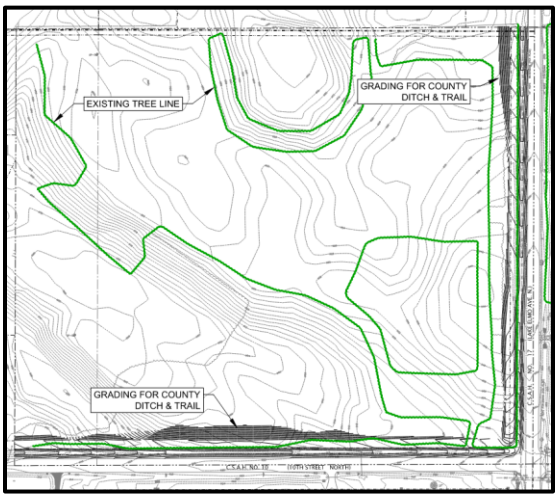


Image #2

- Adjacent Parcels: The gun club being an adjacent parcel had a significant impact on the layout of the site. A 750 foot buffer was used from the edge of the gun club's property when determining the layout of the site. This buffer is shown in Image #3 below. Pushing out proposed site layout to the East side of the site had a significant impact on trees as this side of the parcel which was farmed less and had a greater number of trees and vegetation.

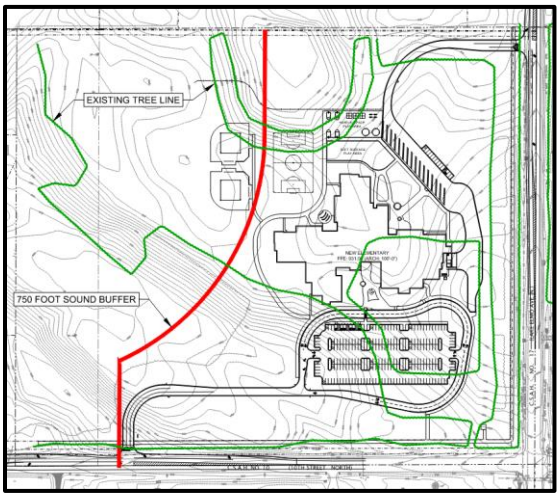


Image #3

- Drainage Patterns, Wetlands, and Landlocked basin: The overall site was designed to maintain existing drainage patterns and preserve the existing landlocked basin to meet the Valley Branch Watershed Districts requirements.

  The southern landlocked basin was significantly impacted by the access point entering the site due to vast grade change between the landlocked basin and the entry drive. This caused a large number of trees to be impacted, in addition the volume taken away from the land locked basin due entry drive had to be made up in that landlocked basin, this meant further grading was required in the basin to restore the volume back to what it was, this in turn impacted additional trees.

  The landlocked basin on the North side of the site was expanded due to request from Washington County as they plan on improving Lake Elmo Ave North and 10TH Street North in the future, on going coordination is still being done to finalize coordinating the stormwater need of the County, but this expansion of the landlocked basin also impacted additional trees. The expanded landlocked basin can be seen on the North side of the site in Image #1 which was referenced above, in addition Image #4 depicted below shows the flood elevations of the existing landlocked basin.

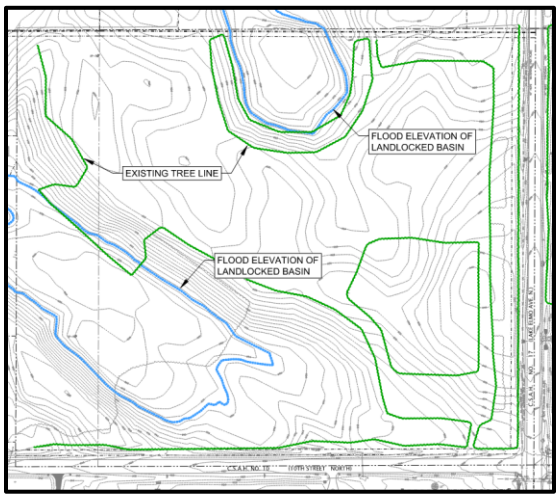


Image #4

- Grading: The existing topography of the site has large variations in grades and lack any large flat areas to propose improvements such a school, parking lots, ball fields, soccer fields, and any other amenities typically found at an elementary school. The vast variation of grades can be seen below in Image #5. To design a site that would provide all these amenities, the site needed to be mass graded to provide flatter areas. The mass grading of the site was done in a way to maintain as many trees a feasibly possible while still proving amenities that will service the school district and the public.

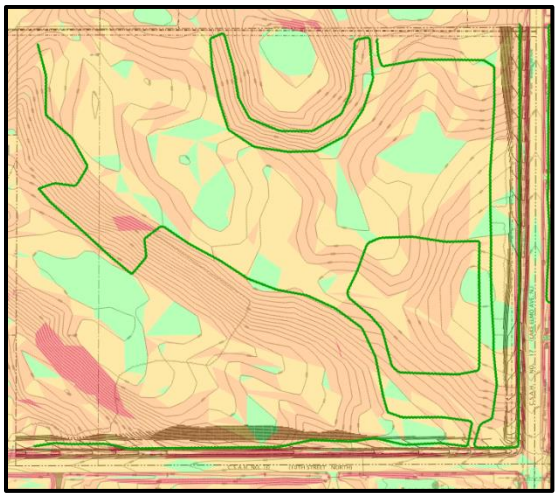


Image #5

Slopes Table

Number	Minimum Slope	Maximum Slope	Color
1	0.00%	2.00%	
2	2.00%	5.00%	
3	5.00%	25.00%	
4	25.00%	372903.20%	

The design choices listed above outline why trees throughout the site were impacted. These choices, along with the other site factors and the fact that the site is heavily wooded, seem to be reasonable justifications for providing an exception to the tree preservation requirements.

10TH AND LAKE ELMO SCHOOL ADDITION

KNOW ALL PERSONS BY THESE PRESENTS: That independent School District No. 834, a Minnesota body corporate and politic, fee owner of the following described property situated in the County of Washington, State of Minnesota, to wit:

The Southeast 1/4 of the Southeast 1/4 of Section 26, Township 29, Range 21, Washington County, Minnesota, and all that part of the Southwest 1/4 of the Southeast 1/4, lying Easterly of the West 435.6 feet of the East 2006 feet of the South 1/2 of the Southeast 1/4 of said Section, Washington County, Minnesota. Abstract Property

Has caused the same to be surveyed and platted as 10TH AND LAKE ELMO SCHOOL ADDITION and does hereby dedicate to the public for public use the public way and the drainage and utility easements as created by this plat.

In witness whereof said Independent School District No. 834, a Minnesota body corporate and politic, has caused these presents to be signed by its proper officer this _____ day of _____, 20___.

SIGNED: Independent School District No. 834

By _____ , Its Chief Financial Officer
Marie Schrul

STATE OF MINNESOTA
COUNTY OF WASHINGTON

This instrument was acknowledged before me this _____ day of_____ , 20_____, by Marie Schrul, the Chief Financial Officer of Independent School District No. 834, a Minnesota body corporate and politic.

_____ (SIGNATURE)

_____ (PRINTED)

Notary Public, Minnesota
My Commission Expires _____

I, Daniel L. Thurmes, do hereby certify that this plat was prepared by me or under my direct supervision; that I am a duly Licensed Land Surveyor in the State of Minnesota; that this plat is a correct representation of the boundary survey; that all mathematical data and labels are correctly designated on this plat; that all monuments depicted on the plat have been, or will be correctly set within one year; that all water boundaries and wet lands, as defined in Minnesota Statutes Section 505.01, Subd. 3, as of the date of this certificate are shown and labeled; and all public ways are shown and labeled on this plat.

Dated this _____ day of _____, 2024.

_____
Daniel L. Thurmes, Licensed Land Surveyor, Minnesota License No. 25718

STATE OF MINNESOTA
COUNTY OF WASHINGTON
This instrument was acknowledged before me on this _____ day of _____, 2023, by Daniel L. Thurmes, Licensed Land Surveyor, Minnesota License No. 25718

_____ _____ (signature)

_____ _____ (print)
Notary Public,
Dakota County, Minnesota
My Commission Expires January 31, 2030

AKE ELMO PLANNING COMMISSION
Approved by the Planning Commission of the City of Lake Elmo, Minnesota, this _____day of_____, 2024.

By _____ , Chairperson

By_____ , Secretary

CITY COUNCIL OF THE CITY OF LAKE ELMO
This plat was approved by the City Council of the City of Lake Elmo, Minnesota, this _____day of_____, 2024 and hereby certifies compliance with all requirements as set forth in Minnesota Statutes, Section 505.03, Subd. 2.

By _____, Mayor

By_____, Clerk

LAKE ELMO PLANNING COMMISSION
Approved by the Planning Commission of the City of Lake Elmo, Minnesota, this _____day of_____, 2024.

By _____ , Chairperson

By_____ , Secretary

CITY COUNCIL OF THE CITY OF LAKE ELMO
This plat was approved by the City Council of the City of Lake Elmo, Minnesota, this _____day of_____, 2024 and hereby certifies compliance with all requirements as set forth in Minnesota Statutes, Section 505.03, Subd. 2.

By _____, Mayor

By_____, Clerk

WASHINGTON COUNTY SURVEYOR
Pursuant to Chapter 820, Laws of Minnesota, 1971, and in accordance with Minnesota Statutes, Section 505.021, Subd. 11, this plat has been reviewed and approved this _____ day of _____, 2024.

By _____
Washington County Surveyor

By_____

WASHINGTON COUNTY AUDITOR/TREASURER
Pursuant to Minnesota Statutes, Section 505.021, Subd. 9 and Section 272.12, taxes payable in the year 202___, on real estate hereinbefore described, have been paid; and there are no delinquent taxes, and transfer has been entered, on this _____ day of _____ 2024.

By _____Washington County Auditor/Treasurer

By _____ Deputy

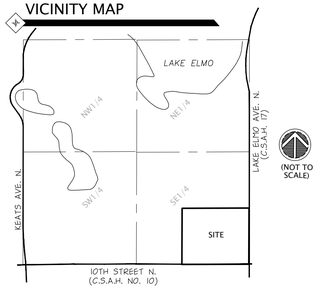
WASHINGTON COUNTY RECORDER
Document Number _____

I hereby certify that this instrument was recorded in the Office of the County Recorder for record on this _____ day of _____, 2024, at _____ o'clock ____. M., and was duly recorded in Washington County Records.

By_____
Washington County Recorder

By _____
Deputy

VICINITY MAP



SEC. 26, TWP. 29, RNG. 21,
WASHINGTON COUNTY, MN

CORNERSTONE
LAND SURVEYING, INC.

10TH AND LAKE ELMO SCHOOL ADDITION

LOT 1

BLOCK 1

DRAINAGE AND UTILITY EASEMENT

FOUND 1/2" IRON PIPE MARKED 25341

N. LINE SW1/4 OF SE1/4, SEC. 26, TOWNSHIP 29, RANGE 21

NE COR. SW1/4 OF SE1/4, SEC. 26, TOWNSHIP 29, RANGE 21

S89°47'08"W 1570.45

N. LINE SE1/4 OF SE1/4, SEC. 26, TOWNSHIP 29, RANGE 21

NE COR. SE1/4 OF SE1/4, SEC. 26, TOWNSHIP 29, RANGE 21

FOUND 1/2" IRON PIPE

E 1/4 CORNER OF OF SECTION 26, T. 29, R. 21 FOUND WASH CO. SPIKE

S00°14'05"W 1320.27

FOUND 3/8" IRON ROD

1319.65

N00°14'05"E

W. LINE OF THE E. 1510.4 FT. (E. LINE OF W. 435.6 FT. OF E. 2006.4 FT. OF NE1/4 OF NE1/4) OF SEC. 26, TOWNSHIP 29, RANGE 21

E. LINE SW1/4 OF SE1/4, SEC. 26, TOWNSHIP 29, RANGE 21

W. LINE SE1/4 OF SE1/4, SEC. 26, TOWNSHIP 29, RANGE 21

LAKE ELMO AVENUE NORTH (C.S.A.H. 17)

E. LINE SE1/4 OF SE1/4, SEC. 26, TOWNSHIP 29, RANGE 21

1320.27

10TH STREET NORTH (C.S.A.H. 10)

N89°48'29"E 1570.44

S. LINE SW1/4 OF SE1/4, SEC. 26, TOWNSHIP 29, RANGE 21

S. LINE SE1/4 OF SE1/4, SEC. 26, TOWNSHIP 29, RANGE 21

SE CORNER OF THE SE1/4 OF SECTION 26, T. 29, R. 21 FOUND WASH CO. SPIKE

FOUND 1/2" IRON ROD

FOUND 1/2" IRON PIPE

N89°48'29"E 1495.44

LOT 1 LAKE WILDS ADDITION

LOT 2 LAKE WILDS ADDITION

LOT 3 MIDLAND MEADOWS

LOT 4 MIDLAND MEADOWS

LOT 5 MIDLAND MEADOWS

LOT 6 MIDLAND MEADOWS

LOT 7 MIDLAND MEADOWS

LOT 5 BLOCK 1 LAKE ELMO AVENUE ADDITION

LOT 6 BLOCK 1 LAKE ELMO AVENUE ADDITION

LOT 11 BLOCK 1 LAKE ELMO AVENUE ADDITION

LOT 12 BLOCK 1 LAKE ELMO AVENUE ADDITION

NW 1/4

NW 1/4

NORTH

0 80 160

SCALE: 1 INCH = 80 FEET
SCALE IN FEET

DRAINAGE AND UTILITY EASEMENTS ARE SHOWN AS THUS: (NOT TO SCALE)

10 10 10 10

BEING 10 FEET IN WIDTH AND ADJOINING LOT LINES UNLESS OTHERWISE SHOWN ON THE PLAT.

THE ORIENTATION OF THIS BEARING SYSTEM IS BASED UPON NORTH LINE OF THE NW1/4 OF SECTION 13. TWP. 29, RNG. 21 WHICH IS ASSUMED TO HAVE THE BEARING OF N89°21'23"E.

○ *DENOTES SET 1/2 INCH X 18 INCH IRON PIPE MARKED R.L.S. 25718 UNLESS OTHERWISE INDICATED.*

● *DENOTES FOUND 1/2 INCH IRON PIPE MARKED AS SHOWN.*

◆ *DENOTES FOUND WASHINGTON COUNTY MONUMENT AS NOTED*

WL *WETLAND AS DELINEATED BY BOPRAY ENVIRONMENTAL ON AUGUST 9, 2024*

CORNERSTONE
LAND SURVEYING, INC.

10TH AND LAKE
ELMO SCHOOL ADDITION

LEGAL DESCRIPTION:

(THE FOLLOWING LEGAL DESCRIPTION IS PER THE LAND TITLE, INC. AS AGENT FOR FIRST AMERICAN TITLE INSURANCE COMPANY TITLE COMMITMENT NO. 683144 DATED AUG. 9, 2023.)
The Southeast 1/4 of the Southeast 1/4 of Section 26, Township 29, Range 21, Washington County, Minnesota, and all that part of the Southwest 1/4 of the Southeast 1/4, lying Easterly of the West 435.6 feet of the East 2006 feet of the South 1/2 of the Southeast 1/4 of said Section, Washington County, Minnesota.
Abstract Property

AREA:

EXISTING AREAS:
GROSS PARCEL AREA = 2,072,858 SQ. FT. / 47.59 ACRES
10TH STREET ESMT. = 78,522 SQ. FT. / 1.80 ACRES
LAKE ELMO AVE ESMT. = 63,513 SQ. FT. / 1.46 ACRES

NET PARCEL AREA = 1,930,823 SQ. FT. / 44.33 ACRES

PROPOSED AREAS:
TOTAL PARCEL AREA: = 2,072,858 SQ. FT. / 47.59 ACRES
LOT 1, BLOCK 1: = 1,861681 SQ. FT. / 42.74 ACRES
ROW DEDICATION: = 211,177 SQ. FT. / 4.85 ACRES

TITLE NOTES:

(THE FOLLOWING EXCEPTIONS APPEAR ON THE LAND TITLE, INC. AS AGENT FOR FIRST AMERICAN TITLE INSURANCE COMPANY TITLE COMMITMENT NO. 683144 DATED AUG. 9, 2023.)

13. Easement for utility purposes per Book 118 of Deeds, page 551, as Document Number 101676, Book 135 of Deeds, pages 373-374 as Document Number 118648. Assignment per Document Number 471911. Quit Claim Deed conveyance to Northwestern Bell Telephone Company d/b/a US West Communications per Document Number 611259. Definition of Easement per Document Number 639079. Corrective Definition of Easements per Document Number 797893. (SHOWN GRAPHICALLY).

14. Highway Easement per Book 245 of Deeds, page 271, as Document Number 219558. (SHOWN GRAPHICALLY).

15. Slope Easement per Book 245 of Deeds, page 272. (SHOWN GRAPHICALLY).

16. Highway and Slope Easement per Book 256 of Deeds, page 159-160, as Document Number 228200. (SHOWN GRAPHICALLY).

BENCHMARKS

ELEVATIONS BASED ON INFORMATION AS SHOWN ON THE TKDA WATERMAIN PLANS - SHEET C502 DATED 4/15/2014. TOP NUT HYDRANT 400 ' N. OF 10TH STREET. ELEVATION = 939.37

WETLAND NOTE:

NO WETLANDS PRESENT BASED ON AN SEPTEMBER 2023 EXAMINATION BY BOPRAY ENVIRONMENTAL AND A PREVIOUS 'NO WETLANDS PRESENT' DETERMINATION PER 'NOTICE OF DECISION' BY THE VALLEY BRANCH WATERSHED DISTRICT DATED 12/31/2020

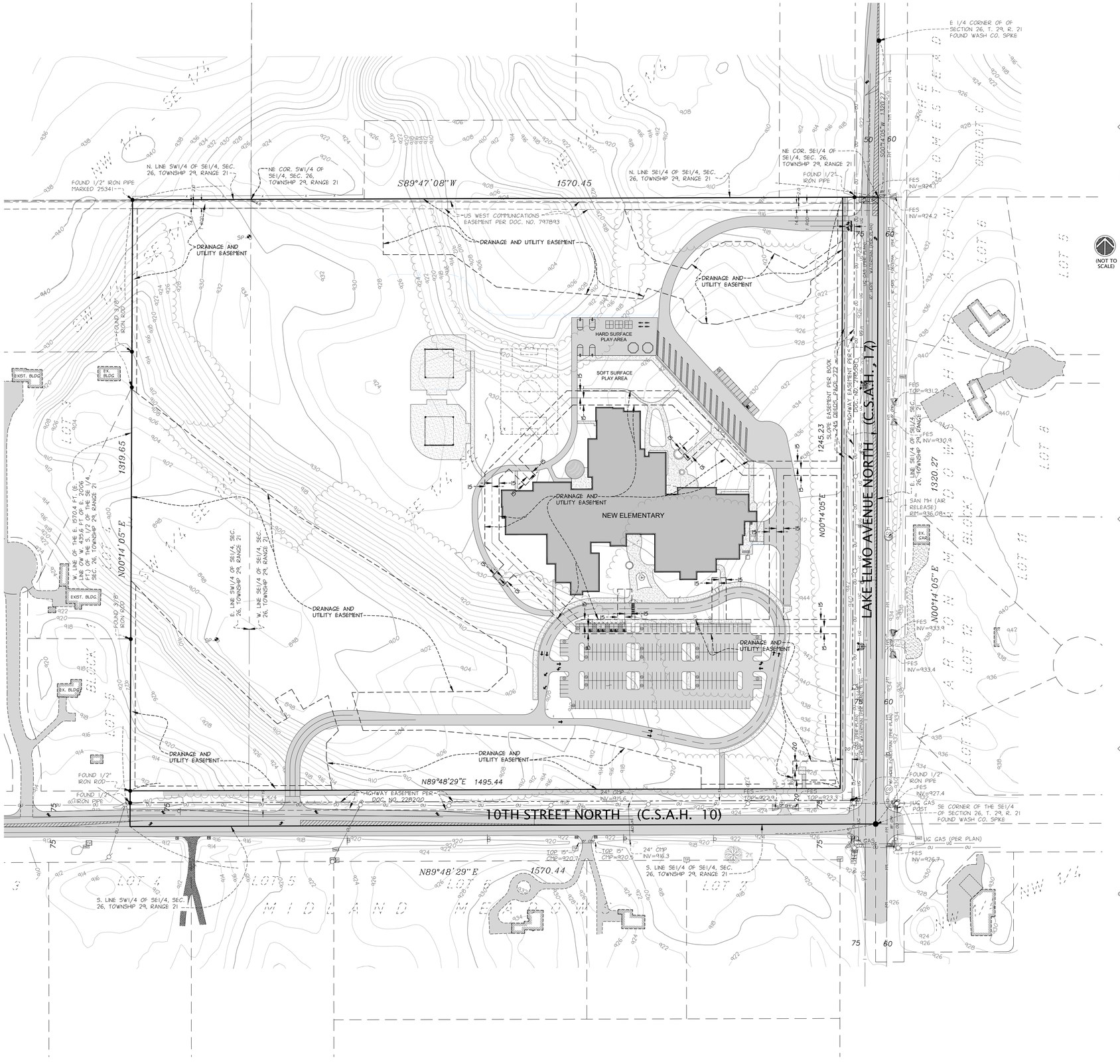
SURVEY NOTES:

1. BEARINGS ARE BASED ON COORDINATES SUPPLIED BY THE WASHINGTON COUNTY SURVEYORS OFFICE.
2. UNDERGROUND UTILITIES SHOWN PER GOPHER ONE LOCATES AND AS-BUILTS PLANS PROVIDED BY THE CITY OF LAKE ELMO.
3. THERE MAY SOME UNDERGROUND UTILITIES, GAS, ELECTRIC, ETC. NOT SHOWN OR LOCATED.
4. LIDAR ELEVATION DATA RELIED UPON FOR INTERIOR TOPOGRAPHIC INFORMATION. CHECK SHOTS TO VERIFY LIDAR ACCURACY WERE TAKEN AS INDICATED BY THE SPOT ELEVATIONS NOTED IN THE GRAPHICS. SOME VARIATION FROM THE ACTUAL GROUND ELEVATIONS MAY OCCUR DUE TO OUR INABILITY TO VERIFY AREAS IN HEAVY TREE COVER. TOPOGRAPHY ON ALL ROAD SURFACES AND ROAD DITCHES WERE DEVELOPED BASED ON FIELD SURVEY SHOTS TAKEN IN OCTOBER 2023.

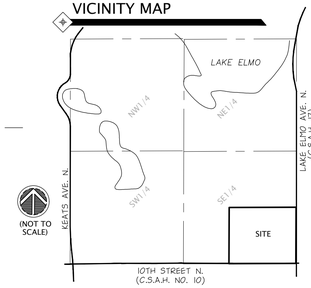
UNDERGROUND UTILITIES NOTES:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. THIS SURVEY HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. GOPHER STATE ONE CALL LOCATE TICKET NUMBER(S) 232783758. SOME MAPS WERE RECEIVED, WHILE OTHER UTILITIES DID NOT RESPOND TO THE LOCATE REQUEST. ADDITIONAL UTILITIES OF WHICH WE ARE UNAWARE MAY EXIST.

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



VICINITY MAP



SEC. 26, TWP. 29, RNG. 21, WASHINGTON COUNTY, MN

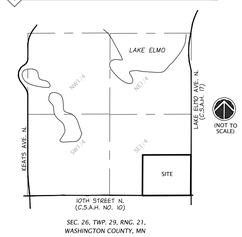
CONTACT:

TONY WILLGER
Manager of Facility and Site Operations
Stillwater Area Public Schools
1875 South Greely Street
Stillwater, MN 55082
651-351-8374

COUNTY/CITY:

WASHINGTON COUNTY
CITY OF LAKE ELMO

VICINITY MAP



SEC. 26, TWP. 29, RNG. 21, WASHINGTON COUNTY, MN

SITEPLAN NOTES:

SITE PLAN AND ENGINEERING INFORMATION PER PLANS PROVIDED BY LARSON ENGINEERING 8/21/2024.

REVISIONS:

DATE	REVISION
08-22-24	INITIAL ISSUE

NORTH
0 100 200

LEGEND:

- FOUND MONUMENT
- SET 1/2" IRON PIPE MARKED RLS NO. 25718
- CABLE TV PEDESTAL
- AIR CONDITIONER
- ELECTRIC MANHOLE
- ELECTRIC METER
- ELECTRIC PEDESTAL
- ELECTRIC TRANSFORMER
- LIGHT POLE
- GUY WIRE
- POWER POLE
- GAS MANHOLE
- GAS METER
- TELEPHONE MANHOLE
- TELEPHONE PEDESTAL
- SANITARY CLEANOUT
- SANITARY MANHOLE
- CATCH BASIN
- STORM DRAIN
- FLARED END SECTION
- STORM MANHOLE
- FIRE DEPT. CONNECTION
- HYDRANT
- CURB STOP
- WATER WELL
- WATER MANHOLE
- WATER METER
- POST INDICATOR VALVE
- WATER VALVE
- BOLLARD
- FLAG POLE
- MAIL BOX
- TRAFFIC SIGN
- UNKNOWN MANHOLE
- SOIL BORING
- SPOT ELEVATION
- TRAFFIC SIGNAL
- CONIFEROUS TREE
- DECIDUOUS TREE
- UE — UNDERGROUND ELECTRIC
- UTV — UNDERGROUND CABLE TV
- UF — UNDERGROUND FIBER OPTIC
- UT — UNDERGROUND TELEPHONE
- OU — OVERHEAD UTILITY
- UG — UNDERGROUND GAS
- > — SANITARY SEWER
- >> — STORM SEWER
- W — WATERMAIN
- x — x — FENCE
- CURB [TYPICAL]
- 1230 — CONTOURS
- TREELINE

CERTIFICATION:

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

Daniel L. Thurmes Registration Number: 25718
Date: 08-22-2024

PROJECT LOCATION:

XXXX
LAKE ELMO AVE. N.
PID#2602921440001

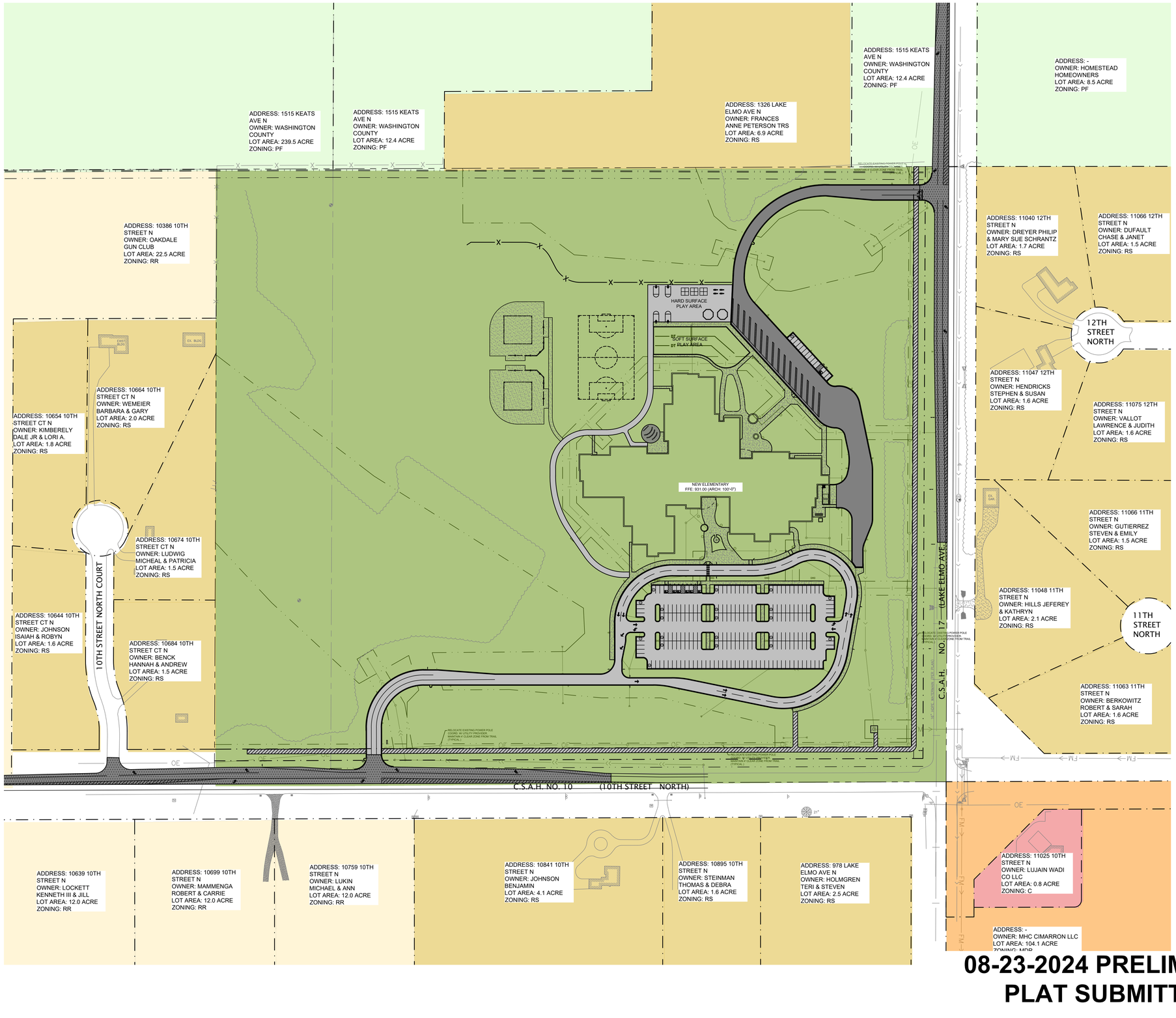
Suite #200
1970 Northwestern Ave
Stillwater, MN 55082
Phone 651.275.8969
Fax 651.275.8976
dan@cssurvey.net

CORNERSTONE
LAND SURVEYING, INC.

FILE NAME SURVLE147
PROJECT NO. LE23147

PRELIMINARY
PLAT

MN



A

SYMBOL LEGEND

- PROPOSED ROADWAY/TRAILS BITUMINOUS PAVEMENT
- PROPOSED HEAVY-DUTY BITUMINOUS PAVEMENT
- PROPOSED COUNTY ROADWAY PAVEMENT SECTION
- PROPOSED BITUMINOUS TRAIL
- PROPOSED CONCRETE PAVEMENT
- PROPERTY LINE
- EASEMENT LINE
- RIGHT-OF-WAY LINE

PARCEL INFO

PID: 26.029.21.44.0001

LOT SIZE: 47.59 ACRES

ZONING: AGRICULTURAL (A)

PROPOSED ZONING: PUBLIC FACILITIES (PF)

LEGAL DESCRIPTION: PT OF S1/2 OF SE1/4 BEING E 1570.4 FT SECTION 26 TOWNSHIP 029 RANGE 021

ZONING LEGEND

- A - Agricultural
- PF - Public Facilities
- RR - Rural Residential
- MDR - Medium Density Residential
- RS - Rural Single Family
- C - Commercial

08-23-2024 PRELIMINARY PLAT SUBMITTAL

NORTH

0 50 100 200

New Lake Elmo Elementary School

Corner of 10th Streen North and
Lake Elmo Avenue North
Lake Elmo MN 55042

INDEPENDENT SCHOOL DISTRICT #834
1875 Greeley St S, Stillwater, MN 55082

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldac.com | 651 227 7773

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

I hereby certify that this plan, specifications 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.

Greg A. Buchal, P.E.

Date: 08.23.2024 Lic. No.: 23793

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: MTH
Check:

North

ZONING AND PROPERTY INFO PLAN

C000

P:\Projects\Projects - 2023\12236128 - New Stillwater Elementary School - Wold\C. Design\Drawing Files\12236128 - C000 Zoning & Property Info Plan.dwg

PROJECT SPECIFIC SWPPP INFORMATION:

I. GENERAL CONSTRUCTION ACTIVITY INFORMATION

PROJECT NAME: NEW LAKE ELMO ELEMENTARY SCHOOL
PROJECT LOCATION: NORTH EAST CORNER OF THE INTERSECTION OF LAKE ELMO AVE N. AND 10TH STREET N. LAKE ELMO, MN 55042

PROJECT CONTACTS
OWNER: INDEPENDENT SCHOOL DISTRICT #834
1875 GREELEY STREET SOUTH
STILLWATER, MN 5508
CONTACT:

ENGINEER: LARSON ENGINEERING, INC.
3524 LABORE ROAD
WHITE BEAR LAKE, MN 55110
CONTACT: MITCH HONSA, P.E., 651-481-92120, MHONSA@LARSONENGR.COM

CONTRACTOR: COMPANY **(TBD)**
ADDRESS
CITY, STATE, ZIP
CONTACT: NAME, PHONE, EMAIL

CITY WHERE WORK WILL TAKE PLACE: LAKE ELMO, MN
COUNTY WHERE WORK WILL TAKE PLACE: WASHINGTON

LATITUDE/LONGITUDE OF APPROXIMATE CENTROID OF PROJECT: 45° 57' 53" N, 92° 53' 06" W

PROJECT TYPE (CIRCLE ONE): RESIDENTIAL COMMERCIAL/INDUSTRIAL

ROAD CONSTRUCTION RESIDENTIAL & ROAD CONSTRUCTION

(OTHER (DESCRIBE): SCHOOL

DATES OF CONSTRUCTION (ESTIMATED):
Construction start date: 10/2024
Construction completion date: 10/2026

PROJECT DESCRIPTION:
The project will consist of the construction of a new school building, parking lots, drives, sidewalks, athletic fields, stormwater basins, and related utilities. There are no wetland impacts associated with the project.

PROJECT LIMITS:
See the project plans, in particular the grading & erosion control plans, for site disturbance limits.

SITE DISTURBANCE SUMMARY (to nearest tenth acre)**:**

Total number of acres to be disturbed:	34.9
Pre-Construction acres of impervious:	0.0
Post-Construction acres of impervious:	8.6
Total new impervious acres:	8.6

II. RECEIVING WATERS

RECEIVING WATERS (WITHIN ONE MILE OF PROJECT PROPERTY EDGE):

NAME OF WATER BODY	TYPE	SPECIAL WATER?	IMPAIRED WATER?
Goose Lake (South)	Lake	No	Yes
Lake Elmo	Lake	No	Yes (Mercury)
Horse Shoe Lake	Lake	No	No
Rose	Lake	No	No
Kramer	Lake	No	No
H.J. Brown Pond	Pond	No	Yes (PFOS)
Margaret	Lake	No	No

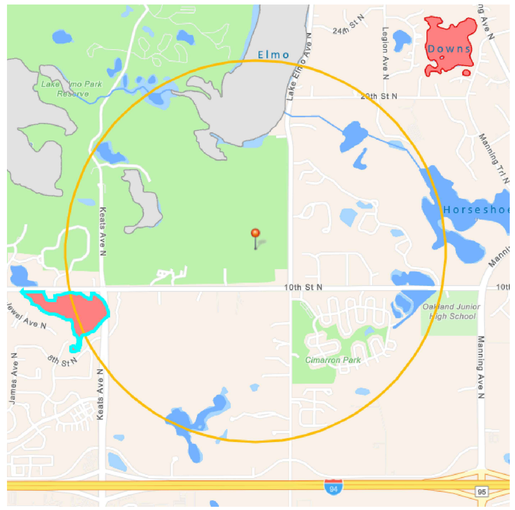
TOTAL MAXIMUM DAILY LOAD (TMDL) WATERS
N/A

IDENTIFY WETLAND IMPACTS:
1. Will construction result in any potential adverse impacts to wetlands, including excavation, degradation of water quality, draining, filling, permanent inundation or flooding, conversion to a stormwater pond?
No.
If yes, describe impacts and mitigation measures that were taken to address the impacts and include copies of permits or approvals from an official state wide wetland program issued specifically for this project or site:
N/A

ENVIRONMENTALLY SENSITIVE AREAS:
1. Identify adjacent public waters where the MN DNR has declared "work in water restrictions" during fish spawning timeframes:
None identified.

2. Describe any stormwater mitigation measures that will be implemented, as a result of an environmental review, endangered or threatened species review or archeological site review:
N/A

PROJECT LOCATION AND RECEIVING WATERS MAP:



III. PROJECT PLANS AND SPECIFICATIONS

Refer to the project plans, specifications, geotechnical report, and stormwater calculations which depict various features that are relevant to this project. Such features may include, but are not limited to, the following:

- Project location and construction limits.
- Existing and final grades, including dividing lines and direction of flow for all pre and post-construction stormwater runoff drainage areas located within the project limits.
- Soil types at the site.
- Locations of impervious surfaces.
- Locations of areas not to be disturbed (e.g., buffer zones, wetlands, etc.)
- Steep slope locations.
- Locations of areas where construction will be phased to minimize duration of exposed soils.
- Locations of all temporary and permanent erosion control and sediment control best management practices (BMP's).
- Buffer zones as required in item 9.17 and 23.11 of the permit.
- Locations of potential pollution-generating activities identified in Section 12 of the permit.
- Standard details for erosion and sediment control BMP's to be installed at the site.

The anticipated erosion prevention and sediment control BMP quantities needed for the life of this project include the following. These quantities are estimated only and shall be verified by the Contractor.

BMP	Estimated Quantity	Final Quantity
Rock Construction Entrance		
Silt Fence		
Inlet Protection		
Concrete Washout		
FES Outlet Rip-Rap		
Turf Seeding		
Erosion Blanket		

SOIL INFORMATION

Refer to geotechnical report for site specific soil information.

TEMPORARY SEDIMENT CONTROL (SITE SPECIFIC ITEMS)

1. Is the project required to install a temporary sediment basin due to 10 or more acres draining to a common location, or 5 acres or more if the site is located within 1 mile of a special or impaired water?
No.
If yes, describe (or attach plans) showing how the basin will be designed and constructed in accordance with Section 14.
N/A
2. Will the project include dewatering, basin draining?
No.
If yes, describe measures to be used to treat/dispose of turbid or sediment-laden water and method to prevent erosion or scour of discharge points (see Section 10 of the permit):
N/A. Based on soil boring results, dewatering is not anticipated.

3. Will the project include use of filters for backwash water?
No.
If yes, describe how filter backwash water will be managed on the site or properly disposed of:
N/A

PERMANENT STORMWATER MANAGEMENT (SITE SPECIFIC ITEMS)

1. Will the project result in one acre or more of new impervious surface or result in one acre or more of new impervious in total if the project is part of a larger plan of development?
Yes.
If yes, a water quality volume of one inch of runoff from the cumulative new impervious surfaces must be retained on site (Section 15) through infiltration unless prohibited due to one of the reasons in item 16.14 through 16.21. If infiltration is prohibited, identify other methods of stormwater treatment used (e.g. filtration, wet sedimentation basin, regional ponding, or equivalent method):
Three new infiltration basins are being proposed as part of the project to provide the required water quality volume from the total new and fully reconstructed impervious areas.

2. Attach design parameters for the planned permanent stormwater management system, including volume calculations, discharge rate calculations, construction details including basin depth, outlet configurations, location, design of pre-treatment devices, and timing for installation.
See the project plans and stormwater calculations.

3. For infiltration systems, provide at least one soil boring, test pit, or infiltrometer test in the location of the infiltration practice for determining infiltration rates.
See the geotechnical evaluation reports contained within the stormwater calculations. Additional in-field testing and geotechnical observations are planned during construction to verify soil characteristics at the proposed basin location.

4. For projects that discharge to trout streams, including tributaries to trout streams, identify method of incorporating temperature controls into the permanent stormwater management system.
N/A

SEQUENCE OF CONSTRUCTION ACTIVITIES

1. Install stabilized rock construction entrances.
2. Install perimeter erosion control BMP's (silt fence, bio-logs, etc).
3. Install temporary construction fencing at infiltration areas and other areas not be disturbed.
4. Install inlet protection throughout project area and downstream inlets.
5. Construct temporary sediment basins/traps as necessary.
6. Strip and stockpile topsoil.
7. Complete rough grading of site.
8. Stabilize denuded areas and stockpiles.
9. Install site utilities.
10. Install temporary inlet protection at newly installed catch basins/inlets.
11. Install curb and gutter and pavement sections.
12. Place topsoil and final grading of areas to be vegetated.
13. Remove accumulated sediment from basins / ponds.
14. Final grade pond and infiltration areas, including soil de-compaction as specified.
15. Complete stormwater basin as-built surveys (as required by project specifications and/or local jurisdictional authorities).
16. Complete permanent stabilization including plantings, seeding, and mulch.
17. Upon completion of construction activity and satisfactory vegetation establishment, remove remaining temporary erosion and sediment control BMPs.
18. Reseed / restore any areas disturbed during BMP removal.

SEEDING NOTES AND REQUIREMENTS:

1. The Contractor is responsible to salvage and preserve existing topsoil as necessary for final stabilization. All topsoil to be salvaged and re-used shall be processed as necessary to meet project specifications.
2. Prior to final seeding, all areas to be vegetated shall be scarified/decompacted and amended as specified in the plans and specifications.
3. Unless otherwise noted, all seed mixes and applications shall be in accordance with MNDOT Seeding Manual, latest edition.
4. See the project plans and specifications for seed mixtures, mulch, slope stabilization, and all other landscaping requirements.

FINAL STABILIZATION:

Ensure Final Stabilization of the site. Final Stabilization is not complete until all of the following requirements are complete:

1. All soil disturbing activities at the site have been completed and soils are stabilized by a uniform perennial vegetative cover with a density of 70 percent of its expected final growth over the entire pervious surface area, or other equivalent means necessary to prevent soil erosion under erosive conditions.
2. The permanent stormwater management system is constructed and operating as designed. Temporary or permanent sedimentation basins that are to be used as permanent water quality management basins have been cleaned of any accumulated sediment. All sediment has been removed from conveyance systems and ditches are stabilized with permanent cover.
3. All temporary synthetic and structural erosion prevention and sediment control BMPs (such as silt fence, bio-logs, etc.) have been removed from the site. BMPs designed to decompose on site may be left in place.
4. Upon correction of all erosion and sediment items and achieving vegetative cover, temporary erosion prevention and sediment control BMPs will be removed and properly disposed/recycled.
5. Within 30 days of final stabilization, a notice of termination shall be submitted to the MPCA (see Permit Termination Req's) .

GENERAL SWPPP NOTES:

1. The Contractor and all Subcontractors involved with construction activity that disturbs soil, or implements a pollution control measure as part of the Storm Water Pollution Prevention Plan (SWPPP) for this project, must comply with the requirements of the National Pollution Discharge Elimination System (NPDES) / State Disposal System (SDS) Program, General Permit MNR10001, Dated August 1, 2023.

2. The Contractor and all Subcontractors shall be responsible for reviewing the NPDES Permit in its entirety, to ensure that all SWPPP measures are in place and permit requirements fulfilled throughout the duration of the project.

SWPPP TRAINING (SECTION 21):

SWPPP PREPARER:
COMPANY: LARSON ENGINEERING, INC.
CONTACT: GREG BUCHAL, 651-481-9120, GBUCHAL@LARSONENGR.COM
COURSE, INSTRUCTOR: DESIGN OF SWPPP, ONLINE COURSE
TRAINING ENTITY: UNIVERSITY OF MINNESOTA
EXPIRATION: MAY 31, 2025

SWPPP CONTACT:
CONTRACTOR: **(TBD)**
CONTACT: NAME, PHONE, EMAIL
COURSE, INSTRUCTOR:
TRAINING ENTITY:
EXPIRATION:

This SWPPP was prepared by personnel certified in design of construction SWPPP's as listed above. Copies of respective certifications are available upon request. In accordance with Section 21 of the permit, the following individuals must receive training, and the content and extent of the training is commensurate with the individual's job duties and responsibilities with regard to activities covered under the permit:
a. Individuals preparing the SWPPP for the project.
b. Individuals overseeing implementation of, revising and/or amending the SWPPP, and individuals performing inspections for the project.
c. Individuals performing or supervising the installation, maintenance and repair of BMP's.

Individuals must receive training from local, state, federal agencies, professional organizations, or other entities with expertise in erosion prevention, sediment control, permanent stormwater treatment and the MN NPDES/SDS Construction Stormwater permit. Individuals shall attend a refresher-training course every three (3) years.

SWPPP IMPLEMENTATION RESPONSIBILITIES:

1. The Owner and Contractor are Permittee(s) as identified by the NPDES permit.
2. The Contractor shall be responsible for all on-site implementation of the SWPPP, including all Subcontractor activities.
3. The Contractor shall provide knowledgeable and experienced person(s) in the application, installation, and maintenance of Erosion and Sediment Control BMP's throughout the project.
4. The Contractor shall provide person(s) meeting the training requirements of the NPDES permit to conduct inspection and maintenance of all erosion prevention and sediment control BMP's in accordance with permit requirements. One of these individuals must be available for an on-site inspection within 72 hours upon request by the MPCA.
5. The Contractor shall provide training documentation for all individual(s) required by the permit. This training documentation shall be recorded in the SWPPP prior to construction, or as soon as personnel for the project have been determined. Documentation shall include:
a. Names of personnel associated with the project required to be trained (as listed above and under Section 21 of the permit).
b. Dates of training, name of instructor, and entity providing training.
c. Content of training course or workshop including number of hours of training.

INSPECTIONS AND MAINTENANCE:

1. The Contractor shall provide person(s) meeting the training requirements to conduct inspection and maintenance of all erosion prevention and sediment control BMP's under this project in accordance with permit requirements.
2. An example MPCA construction stormwater checklist can be found at the link below. Note: This template inspection report does not address all aspects of the NPDES Permit. The completion of this checklist does not guarantee that all permit requirements are in compliance; it is the responsibility of the Permittee(s) to read and understand the full permit requirements.

https://www.pca.state.mn.us/sites/default/files/wq-strm2-36.docx

RECORDS RETENTION:

The SWPPP, including all changes/amendments, and inspections and maintenance records shall be kept on site during normal working hours by individuals who have operational control of that portion of the site.

All Owner(s) shall keep the SWPPP, along with the following additional records, on file for three (3) years after submittal of the NOT as outlined in Section 4:
a. The Final SWPPP;
b. Any other stormwater related permits required for the project;
c. Records of all inspection and maintenance conducted during construction;
d. All permanent operation and maintenance agreements that have been implemented, including all Right-Of-Way, Contracts, Covenants, and other binding requirements regarding perpetual maintenance; and
e. All required calculations for design of the temporary and permanent stormwater management systems.

08-23-2024 PRELIMINARY PLAT SUBMITTAL

New Lake Elmo Elementary School

Corner of 10th Streen North and Lake Elmo Avenue North
Lake Elmo MN 55042

INDEPENDENT SCHOOL DISTRICT #834
1875 Greeley St S, Stillwater, MN 55082

Wold

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldac.com | 651 227 7773

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

I hereby certify that this plan, specifications 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.

Greg A. Buchal, P.E.

Date: 08.23.2024 Lic. No.: 23793

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: MTH
Check:

North

SWPPP

C001

P:\Projects\Projects - 2023\12236128 - New Stillwater Elementary School - Wold\C. Design\Drawing Files\12236128 - C001 SWPPP.dwg

MN

A

B

C

D

E

A

F

GENERAL SWPPP REQUIREMENTS AND NOTES:

SWPPP AMENDMENTS (SECTION 6):

1. One of the individuals described in item 21.2.a or 21.2.b of the permit or another qualified individual must complete all SWPPP changes. Changes involving the use of less stringent BMPs must include a justification describing how the replacement BMP is effective for the site characteristics.
2. The SWPPP shall be amended to include additional or modified BMPs as necessary to correct problems identified or address situations whenever there is a change in design, construction, operation, maintenance, weather or seasonal conditions having a significant effect on the discharge of pollutants to surface waters or groundwater.
3. The SWPPP shall be amended to include additional or modified BMPs as necessary to correct problems identified or address situations whenever inspections or investigations by the site owner or operator, USEPA or MPCA officials indicate the SWPPP is not effective in eliminating or significantly minimizing the ischarge of pollutants to surface waters or groundwater or the discharges are cuasing water quality standard exceedances (e.g., nuisance conditions as defined in Minn. R. 7050.0210, subp. 2 or the SWPPP is not consistend with the objectives of the USEPA approved TMDL.

BMP SELECTION AND INSTALLATION (SECTION 7):

1. All BMPs identified in the SWPPP document and construction plans shall be selected, installed, and maintained in an appropriate and functional manner in accordance with relevant manufacturer specifications and accepted engineering practices.
2. Do not disturb more land (i.e., phasing) than can be effectively inspected and maintained in accordance with Section 11.

TEMPORARY EROSION PREVENTION PRACTICES (SECTION 8)

1. Prior to beginning any construction work at the site, locations of areas not to be disturbed must be delineated (e.g., with flags, stakes, signs, silt fence, snow fence, etc.) throughout the project site.
2. Minimize the need for disturbance of portions of the project with steep slopes. For those sloped areas which must be disturbed, use techniques such as phasing and stabilization practices designed for steep slopes (e.g., slope draining and terracing).
3. Stabilize all exposed soil areas (including stockpiles). Stabilization must be initiated immediately to limit soil erosion whenever any construction activity has permanently or temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days (or 7 days if within one mile of an identified impaired water). Stabilization must be completed no later than 14 calendar days (or 7 days if within one mile of an identified impaired water) after the construction activity has ceased.
4. Stabilization is not required on constructed base components of roads, parking lots, and similar surfaces. Stabilization is not required on temporary stockpiles without significant silt, clay or organic components (e.g., clean aggregate stockpiles, demolition concrete stockpiles, sand stockpiles) but sediment controls must be placed at the base of the stockpile.
5. For Public Waters that the Minnesota Department of Natural Resources has promulgated “work in water restrictions” during specified fish spawning time frames, all exposed soil areas that are within 200 feet of the water's edge, and drain to these waters must complete the stabilization activities within 24 hours during the restriction period.
6. Stabilize the normal wetted perimeter of the last 200 linear feet of temporary or permanent drainage ditches or swales that drain water from the site within 24 hours after connecting to a surface water or property edge. Stabilize remaining portions of temporary or permanent ditches or swales within 14 calendar days (or 7 days if within one mile of an identified impaired water) after connecting to a surface water or property edge and construction in that portion of the ditch temporarily or permanently ceases.
7. Temporary or permanent ditches or swales being used as sediment containment systems during construction (with properly designed rock-ditch checks, bio rolls, silt dikes, etc.) do not need to be stabilized during the temporary period of use as a sediment containment system. These areas must be stabilized within 24 hours after no longer being used for as a sediment containment system.
8. Applying mulch, hydromulch, tackifier, polyacrylamide or similar erosion prevention practices is not acceptable within any portion of the normal wetted perimeter of a temporary or permanent drainage ditch or swale section with a continuous slope of greater than 2 percent.
9. Pipe outlets must be provided with temporary or permanent energy dissipation within 24 hours after connection to a surface water or permanent stormwater treatment system.
10. Route water around unstabilized areas on the site and to reduce erosion, unless infeasible. Use erosion controls and velocity dissipation devices such as check dams, sediment traps, riprap, or grouted riprap at outlets within and along the length of any constructed stormwater conveyance channel, and at any outlet, to provide a non-erosive flow velocity, to minimize erosion of channels and their embankments, outlets, adjacent stream banks, slopes, and downstream waters during discharge conditions.
11. Unless infeasible due to lack of pervious or vegetated areas, direct discharges from BMPs to vegetated areas of the site (including any natural buffers) in order to increase sediment removal and maximize stormwater infiltration. Use velocity dissipation devices if necessary to prevent erosion when directing stormwater to vegetated areas.
12. Infiltration areas shall not be excavated until all upstream areas have been stabilized and/or upstream BMPs are in place to properly prevent sediment deposition. Only low impact equipment shall be allowed in infiltration areas which shall be clearly identified, staked, and marked/fenced off.
13. Project phasing shall be implemented to ensure land disturbance and temporary erosion control measures can be effectively inspected and maintained throughout the duration of the project in accordance with the Inspection and Maintenance requirements of Section 11.

TEMPORARY SEDIMENT CONTROL PRACTICES (SECTION 9)

1. Sediment control practices must be established on all down gradient perimeters and be located upgradient of any buffer zones. The perimeter sediment control practices must be in place before any upgradient land-disturbing activities begin. These practices shall remain in place until Final Stabilization has been established.
2. If downgradient sediment controls become overloaded, based on frequent failure or excessive maintenance requirements, additional upgradient sediment control practices or redundant BMPs shall be installed to eliminate the overloading concerns. All changes shall be recorded in the SWPPP.
3. Temporary or permanent drainage ditches and sediment basins designed as part of a sediment containment system (e.g., ditches with rock-check dams) require sediment control practices only as appropriate for site conditions.
4. A floating silt curtain placed in the water is not an acceptable sediment control BMP except when working on a shoreline or below the waterline. Immediately after construction activity (e.g., installation of rip rap along the shoreline) in that area is complete, upland perimeter control practices shall be installed if exposed soils still drain to a surface water.
5. Re-install all sediment control practices that have been adjusted or removed to accommodate short-term activities such as clearing or grubbing, or passage of vehicles, immediately after the short-term activity has been completed. Complete any short-term activity that requires removal of sediment control practices as quickly as possible and re-install sediment control practices before the next precipitation event even if the short-term activity is not complete.
6. All storm drain inlets must be protected by appropriate BMPs during construction until all sources with potential for discharging to the inlet have been stabilized. Inlet protection may be removed for a particular inlet if a specific safety concern (street flooding/freezing) has been identified by the Permittee(s) or the jurisdictional authority (e.g., city/county/township/MnDOT engineer).The Permittee(s) must document the need for removal in the SWPPP.
7. Temporary soil stockpiles must have silt fence or other effective sediment controls, and cannot be placed in any natural buffers or surface waters, including stormwater conveyances such as curb and gutter systems, or conduits and ditches unless there is a bypass in place for the stormwater.
8. Where vehicle traffic leaves any part of the site (or onto paved roads within the site) install a vehicle tracking BMP to minimize the track out of sediment from the construction site. Examples of vehicle tracking BMPs include (but are not limited to) rock pads, mud mats, slash mulch, concrete or steel wash racks, or equivalent systems. Use street sweeping if such vehicle tracking BMPs are not adequate to prevent sediment from being tracked onto the street.
9. The Permittee(s) must install temporary sedimentation basins as required in accordance with permit requirements.
10. Minimize soil compaction by restricting vehicle access in areas where final vegetative stabilization will occur, unless otherwise infeasible.
11. Discharges from BMPs shall be directed to vegetated areas unless infeasible.
12. Preserve a 50 foot natural buffer or (if a buffer is infeasible on the site) provide redundant (double) perimeter sediment controls when a surface water is located within 50 feet of the project's earth disturbances and stormwater flows to the surface water.
13. Perimeter sediment controls shall be installed at least 5 feet apart unless limited by lack of available space. Natural buffers are not required adjacent to road ditches, judicial ditches, county ditches, stormwater conveyance channels, storm drain inlets, and sediment basins. If preserving the buffer is infeasible, the reasons for which shall be recorded in the SWPPP.
14. The use of polymers, flocculants, or other sedimentation treatment chemicals, if used on the project, shall be used in accordance with accepted engineering practices, dosing specifications, and sediment removal design specifications provided by the product manufacturer or supplier. Use conventional erosion and sediment controls prior to the chemical addition to ensure effective treatment. Chemicals may only be applied where treated stormwater is directed to a sediment control system which allows or filtration of settlement of the floc prior to discharge.
15. If the proposed project as shown on the plans has 10 or more acres draining to a common location or 5 acres or more if the site is within one mile of a special or impaired water (as identified in Section III - Receiving Waters and Environmentally Sensitive Areas), then a temporary sediment basin must be constructed as shown on the plans. Temporary sediment basins will have a minimum of 3,600 cubic feet of storage per acre draining to the basin. The basin outlet shall provide for discharging water from the surface to minimize discharging of pollutants. A stabilized emergency overflow shall be constructed.

DEWATERING AND BASIN DRAINING (SECTION 10)

1. Discharge turbid or sediment-laden waters related to dewatering or basin draining (e.g., pumped discharges, trench/ditch cuts for drainage) to a temporary or permanent sediment basin on the project site unless infeasible. Discharge from the temporary or permanent sedimentation basins to surface waters if the basin water has been visually checked to ensure adequate treatment has been obtained in the basin and that nuisance conditions will not result from the discharge. If the water cannot be discharged to a sedimentation basin prior to entering the surface water, it must be treated with the appropriate BMPs, such that the discharge does not adversely affect the receiving water or downstream properties.
2. Discharge water that contains oil or grease, must use an oil-water separator or suitable filtration device (e.g. cartridge filters, absorbents pads) prior to discharging the water.
3. All water from dewatering or basin-draining activities must be discharged in a manner that does not cause nuisance conditions, erosion in receiving channels or downslope properties, erosion or scour in the immediate vicinity of discharge points, or inundation in wetlands causing significant adverse impact to the wetland.
4. The use of filters with backwash water, haul the backwash water away for disposal, return the backwash water to the beginning of the treatment process, or incorporate the backwash water into the site in a manner that does not cause erosion. Discharge backwash water to the sanitary sewer if permission is granted by the sanitary sewer authority. Replace and clean the filter media used in dewatering devices when required to retain adequate function.

INSPECTIONS AND MAINTENANCE (SECTION 11)

1. Owner and Contractor shall ensure that a trained person (as identified in item 21.2.b) of the permit will inspect the entire construction site at a minimum:
   - Once every seven (7) days during active construction, and
   - Within 24 hours after a rainfall event greater than 1/2 inch in 24 hours
2. Inspect all erosion prevention and sediment control BMPs and Pollution Prevention Management Measures to ensure integrity and effectiveness during all routine and post-rainfall event inspections. All nonfunctional BMPs must be repaired, replaced, or supplemented with functional BMPs by the end of the next business day after discovery, or as soon as field conditions allow access unless another time frame is specified below. Investigate and comply with the following Inspection and Maintenance requirements:
   a. All perimeter control devices must be repaired, replaced, or supplemented when they become nonfunctional or the sediment reaches one-half (1/2) of the height of the device. These repairs must be made by the end of the next business day after discovery, or thereafter as soon as field conditions allow access.
   b. Temporary and permanent sedimentation basins must be drained and the sediment removed when the depth of sediment collected in the basin reaches one-half (1/2) the storage volume. Drainage and removal must be completed within 72 hours of discovery, or as soon as field conditions allow access.
   c. Inspect and photograph dewatering discharges at the beginning and at least once every 24 hours during operation.
   d. Surface waters, including drainage ditches and conveyance systems, must be inspected for evidence of erosion and sediment deposition during each inspection. Remove all deltas and sediment deposited in surface waters, including drainage ways, catch basins, and other drainage systems, and restabilize the areas where sediment removal results in exposed soil. The removal and stabilization must take place within seven (7) days of discovery unless precluded by legal, regulatory, or physical access constraints. Use all reasonable efforts to obtain access. If precluded, removal and stabilization must take place within seven (7) calendar days of obtaining access. Contact all local, regional, state and federal authorities and receiving any applicable permits, prior to conducting any work in surface waters.
   e. Construction site vehicle exit locations must be inspected for evidence of off-site sediment tracking onto paved surfaces. Tracked sediment must be removed from all paved surfaces both on and off site within 24 hours of discovery, or if applicable, within a shorter time.
   f. Streets and other areas adjacent to the project must be inspected for evidence of off-site accumulations of sediment. If sediment is present, it must be removed in a manner and at a frequency sufficient to minimize off-site impacts (e.g., fugitive sediment in streets could be washed into storm sewers by the next rain and/or pose a safety hazard to users of public streets).
3. Inspection frequency adjustment:
   a. Inspections of areas with permanent cover can be reduced to once per month, even if construction activity continues on other portions of the site; or
   b. where sites have permanent cover on all exposed soil and no construction activity is occurring anywhere on the site, inspections can be reduced to once per month and, after 12 months, may be suspended completely until construction activity resumes. The MPCA may require inspections to resume if conditions warrant; or
   c. where construction activity has been suspended due to frozen ground conditions, inspections may be suspended. Inspections must resume within 24 hours of runoff occurring, or upon resuming construction, whichever comes first.
4. All inspections and maintenance activities within 24 hours of being conducted must be recorded and retained in the SWPPP. These records must include:
   a. Date and time of inspections
   b. Name of person(s) conducting inspections
   c. Findings of inspections, including the specific location where corrective actions are needed
   d. Corrective actions taken (including dates, times, and party completing maintenance activities)
   e. Date and amount of all rainfall events greater than 1/2 inch (0.5 inches) in 24 hours. Rainfall amounts must be obtained by a properly maintained rain gauge installed onsite, a weather station that is within 1 mile of your location or a weather reporting system that provides site specific rainfall data from radar summaries.
   f. If any discharge is observed to be occurring during the inspection, a record of all points of the property from which there is a discharge must be made, and the discharge should be described (i.e., color, odor, floating, settled, or suspended solids, foam, oil sheen, and other obvious indicators of pollutants) and photographed.
   g. Any amendments to the SWPPP proposed as a result of the inspection must be documented within seven (7) calendar days.
5. All infiltration areas must be inspected to ensure that no sediment from ongoing construction activity is reaching the infiltration area. All infiltration areas must be inspected to ensure that equipment is not being driven across the infiltration area.

POLLUTION PREVENTION MANAGEMENT MEASURES (SECTION 12)

Implement the following pollution prevention management measures on the site:

1. Storage, Handling, and Disposal of Construction Products, Materials, and Wastes shall comply with the following to minimize the exposure to stormwater of any of the products, materials, or wastes. Products or wastes which are either not a source of contamination to stormwater or are designed to be exposed to stormwater are not held to this requirement:
   a. Building products that have the potential to leach pollutants must be under cover (e.g., plastic sheeting or temporary roofs) to prevent the discharge of pollutants or protected by a similarly effective means designed to minimize contact with stormwater.
   b. Pesticides, herbicides, insecticides, fertilizers, treatment chemicals, and landscape materials must be under cover (e.g., plastic sheeting or temporary roofs) to prevent the discharge of pollutants or protected by similarly effective means designed to minimize contact with stormwater.
   c. Hazardous materials, toxic waste, (including oil, diesel fuel, gasoline, hydraulic fluids, paint solvents, petroleum-based products, wood preservatives, additives, curing compounds, and acids) must be properly stored in sealed containers to prevent spills, leaks or other discharge. Restricted access storage areas must be provided to prevent vandalism. Storage and disposal of hazardous waste or hazardous materials must be in compliance with Minn. R. ch. 7045 including secondary containment as applicable.
   d. Solid waste must be stored, collected and disposed of properly in compliance with Minn. R. ch. 7035.
   e. Portable toilets must be positioned so that they are secure and will not be tipped or knocked over. Sanitary waste must be disposed of properly in accordance with Minn. R. ch. 7041.
2. Fueling and Maintenance of Equipment or Vehicles; Spill Prevention and Response: Take reasonable steps to prevent the discharge of spilled or leaked chemicals, including fuel, from any area where chemicals or fuel will be loaded or unloaded including the use of drip pans or absorbents unless infeasible. Conduct fueling in a contained area unless infeasible. Ensure adequate supplies are available at all times to clean up discharged materials and that an appropriate disposal method is available for recovered spilled materials. Report and clean up spills immediately as required by Minn. Stat. § 115.061, using dry clean up measures where possible.
3. Vehicle and equipment washing: Wash the exterior of vehicles or equipment on the project site, washing must be limited to a defined area of the site. Runoff from the washing area must be contained in a sediment basin or other similarly effective controls and waste from the washing activity must be properly disposed of. Properly use and store soaps, detergents, or solvents. No engine degreasing is allowed on site.
4. Concrete and other washouts waste: Provide effective containment for all liquid and solid wastes generated by washout operations (concrete, stucco, paint, form release oils, curing compounds and other construction materials) related to the construction activity. The liquid and solid washout wastes must not contact the ground, and the containment must be designed so that it does not result in runoff from the washout operations or areas. Liquid and solid wastes must be disposed of properly and in compliance with MPCA rules. A sign must be installed adjacent to each washout facility that requires site personnel to utilize the proper facilities for disposal of concrete and other washout wastes.

PERMIT TERMINATION (SECTIONS 4 AND 13)

1. Permittees must submit a NOT within 30 days after all termination conditions listed in Section 13 are complete.
2. Permittees must submit a NOT within 30 days after selling or otherwise legally transferring the entire site, including permit responsibility for roads (e.g., street sweeping) and stormwater infrastructure final clean out, or transferring portions of a site to another party. The permittees' coverage under the permit terminates at midnight on the submission date of the NOT.
3. Permittees may terminate permit coverage prior to completion of all construction activity if they meet all of the following conditions:
   a. Construction activity has ceased for at least 90 days; and
   b. at least 90 percent (by area) of all originally proposed construction activity has been completed and permanent cover has been established on those areas; and
   c. on areas where construction activity is not complete, permanent cover has been established; and
   d. the site complies with items 13.3 through 13.7 of the permit.

   After permit coverage is terminated under this item, any subsequent development on the remaining portions of the site will require permit coverage if the subsequent development itself or as part of the remaining common plan of development or sale will result in land disturbing activity of one (1) or more acres in size.
4. Permittees may terminate coverage upon MPCA approval after submitting information documenting the owner canceled the project.
5. Permittees must complete all construction activity and must install permanent cover over all areas prior to submitting the NOT. Vegetative cover must consist of a uniform perennial vegetation with a density of 70 percent of its expected final growth. Vegetation is not required where the function of a specific area dictates no vegetation, such as impervious surfaces or the base of a sand filter.
6. Permittees must clean the permanent stormwater system of any accumulated sediment and must ensure the system meets all applicable requirements in Section 15 through 19 of the permit and is operating as designed.
7. Permittees must remove all sediment from conveyance systems prior to submitting the NOT.
8. Permittees must remove all temporary synthetic erosion prevention and sediment control BMPs prior to submitting the NOT. BMPs designed to decompose on-site may be left in place.
9. For residential construction only, permit coverage terminates on individual lots if the structures are finished and temporary erosion prevention and downgradient perimeter control is complete, the residence sells to the homeowner, and the permittee distributes the MPCA's "Homeowner Fact Sheet" to the homeowner.
10. For construction projects on agricultural land (e.g., pipelines across cropland), disturbed land must be returned to its preconstruction agricultural condition prior to submitting the NOT.
11. When submitting the NOT, permittees must include either ground or aerial photographs showing vegetative cover requirements have been met as listed above. All submitted photographs shall include the date and specific site location.

LONG TERM OPERATION AND MAINTENANCE:

1. Upon the completion of construction activity and NPDES permit termination, in accordance with Sections 4 and 13, the Property Owner shall become the responsible party for long term operation and maintenance (O&M) of all permanent stormwater management features under this project.
2. All associated operations, inspections, maintenance, and record keeping shall be performed by trained individual(s) familiar with the site stormwater management system.
3. Record keeping of inspections and maintenance items shall be maintained by the Owner in accordance with applicable Maintenance Agreements/Declarations as required by local jurisdictional authorities.

08-23-2024 PRELIMINARY PLAT SUBMITTAL

P:\Projects\Projects - 2023\12236128 - New Stillwater Elementary School - Wold\C. Design\Drawing Files\12236128 - C001 SWPPP.dwg

New Lake Elmo Elementary School

Corner of 10th Streen North and Lake Elmo Avenue North
Lake Elmo MN 55042

INDEPENDENT SCHOOL DISTRICT #834
1875 Greeley St S, Stillwater, MN 55082

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldac.com | 651 227 7773

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

I hereby certify that this plan, specifications 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.

Greg A. Buchal, P.E.

Date: 08.23.2024 Lic. No.: 23793

Revisions		
Description	Date	Num

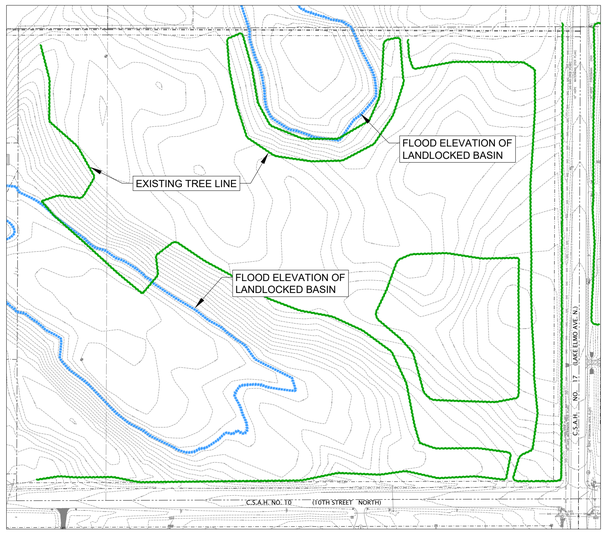
Comm: 12236128
Date: 08-23-2024
Drawn: MTH
Check:

North

SWPPP

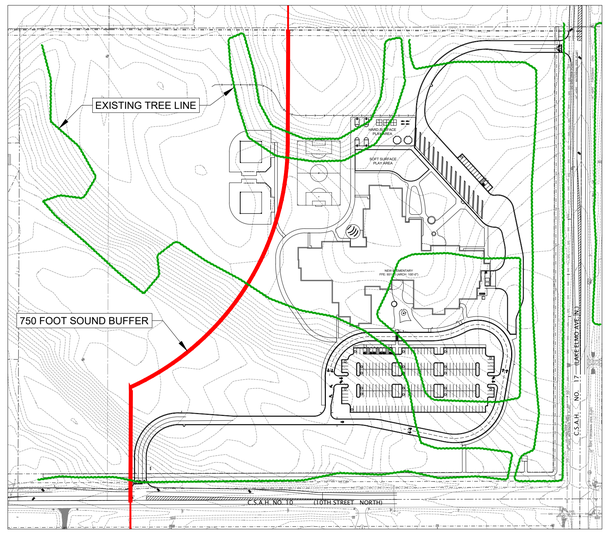
C002

MN



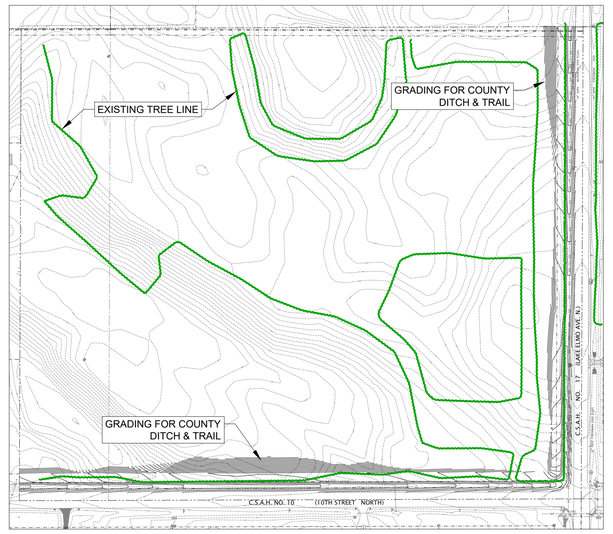
LANDLOCKED BASINS
1:200 SCALE

NORTH
0 100 200 400



750 FOOT SOUND BUFFER
1:200 SCALE

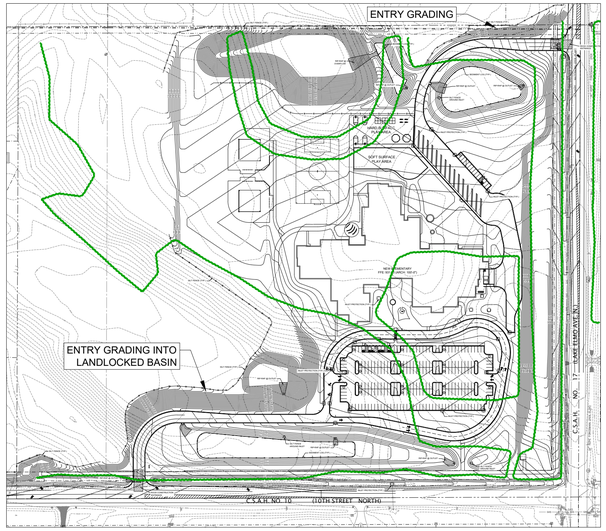
NORTH
0 100 200 400



COUNTY ROAD
TRAIL & DITCH GRADING
1:200 SCALE

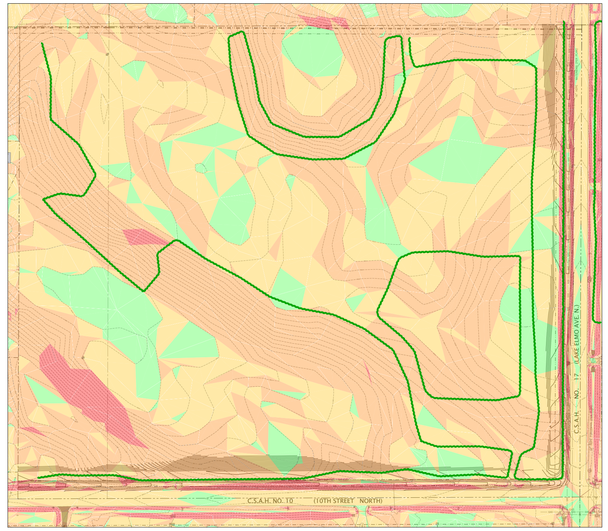
NORTH
0 100 200 400

A



ENTRY GRADING
1:200 SCALE

NORTH
0 100 200 400



EXISTING SLOPES
THROUGHOUT SITE
1:200 SCALE

NORTH
0 100 200 400

Slopes Table			
Number	Minimum Slope	Maximum Slope	Color
1	0.00%	2.00%	
2	2.00%	5.00%	
3	5.00%	25.00%	
4	25.00%	372903.20%	

08-23-2024 PRELIMINARY PLAT SUBMITTAL

P:\Projects\Projects - 2023\12236128 - New Stillwater Elementary School - Wold\C. Design\Drawing Files\12236128 - C050 Site Constraints.dwg

New Lake Elmo Elementary School

Corner of 10th Streen North and
Lake Elmo Avenue North
Lake Elmo MN 55042

INDEPENDENT SCHOOL DISTRICT #834
1875 Greeley St S, Stillwater, MN 55082

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

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

I hereby certify that this plan, specifications 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.

Greg A. Buchal, P.E.
Date: 08.23.2024 Lic. No.: 23793

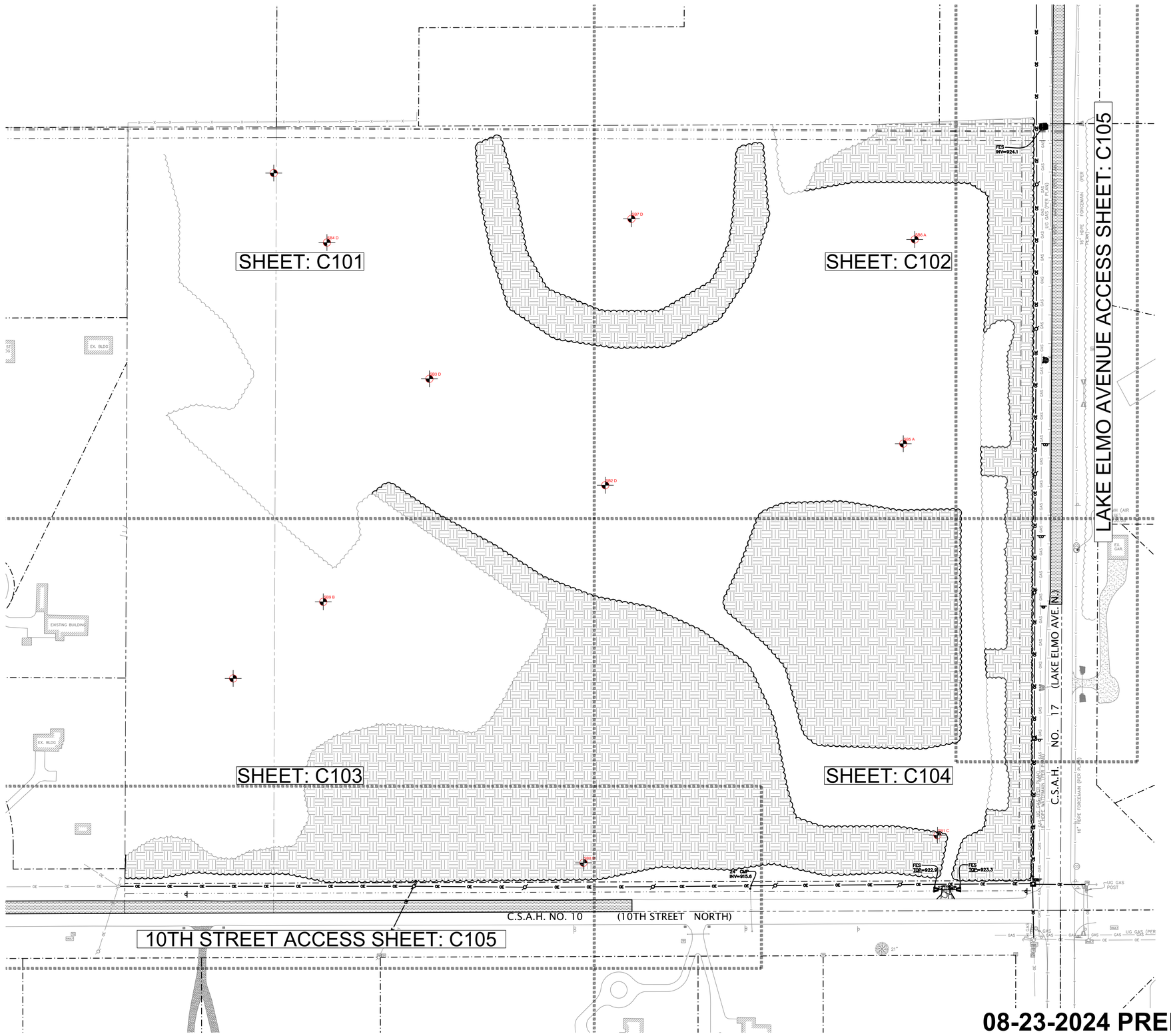
Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: MTH
Check:

North

SITE CONSTRAINTS

C050



SYMBOL LEGEND

- REMOVE AND DISPOSE OF EXISTING BITUMINOUS PAVEMENT SECTION
- REMOVE AND DISPOSE OF EXISTING GRAVEL SECTION
- REMOVE AND DISPOSE OF EXISTING TREES, STUMPS, AND UNDERBRUSH. SEE LANDSCAPE PLAN FOR EXACT REMOVALS
- SB1 C — SOIL BORING LOCATION
- PROPERTY LINE
- RIGHT OF WAY LINE
- EASEMENT LINE
- SANITARY SEWER PIPE
- STORM SEWER PIPE
- WATERMAIN PIPE
- COMMUNICATIONS UNDERGROUND LINE
- ELECTRIC OVERHEAD LINE
- ELECTRIC UNDERGROUND LINE
- FIBER OPTIC UNDERGROUND LINE
- GAS UNDERGROUND LINE
- FENCE

DEMOLITION NOTES

1. Verify all existing utility locations.
2. It is the responsibility of the Contractor to perform or coordinate all necessary utility demolitions and relocations from existing utility locations to all onsite amenities and buildings. These connections include, but are not limited to, water, sanitary sewer, cable tv, telephone, gas, electric, site lighting, etc.
3. Prior to beginning work, contact Gopher State Onecall (651-454-0002) to locate utilities throughout the area under construction. The Contractor shall retain the services of a private utility locator to locate the private utilities.
4. Sawcut along edges of pavements, sidewalks, and curbs to remain.
5. All construction shall be performed in accordance with state and local standard specifications for construction.

08-23-2024 PRELIMINARY PLAT SUBMITTAL

New Lake Elmo Elementary School

Corner of 10th Streen North and
Lake Elmo Avenue North
Lake Elmo MN 55042

INDEPENDENT SCHOOL DISTRICT #834
1875 Greeley St S, Stillwater, MN 55082

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldac.com | 651 227 7773

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

I hereby certify that this plan, specifications 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.

Greg A. Buchal, P.E.

Date: 08.23.2024 Lic. No.: 23793

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: MTH
Check:

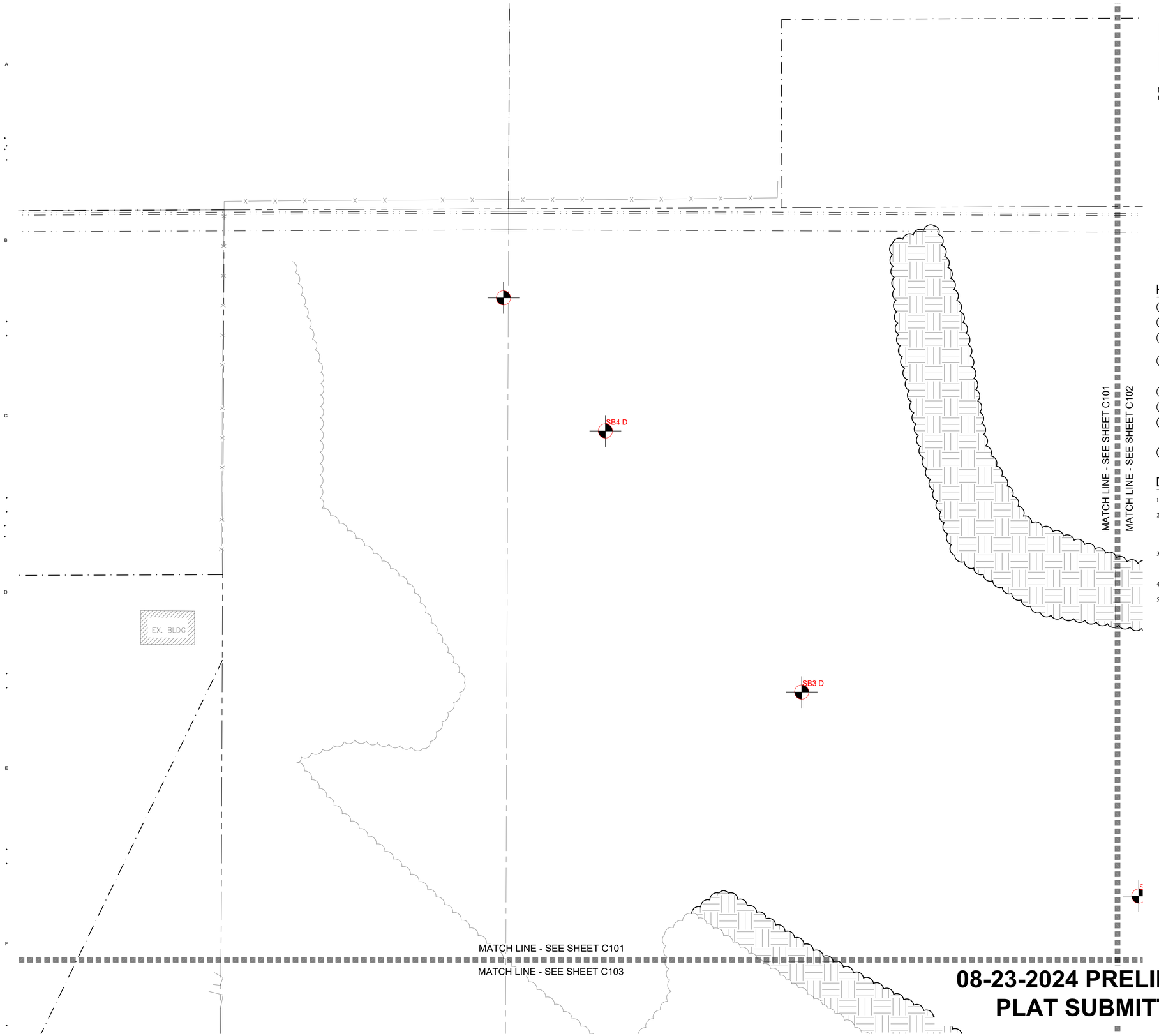
North

OVERALL: EXISTING CONDITIONS AND DEMOLITION PLAN

C100

P:\Projects\Projects - 2025\12236128 - New Stillwater Elementary School - Wold\C. Design\Drawing Files\12236128 - C100 Existing Conditions & Demolition Plan.dwg

MN



A

P:\Projects\Projects - 2023\12236128 - New Stillwater Elementary School - Wold\C. Design\Drawing Files\12236128 - C100 Existing Conditions & Demolition Plan.dwg

SYMBOL LEGEND

- REMOVE AND DISPOSE OF EXISTING BITUMINOUS PAVEMENT SECTION
- REMOVE AND DISPOSE OF EXISTING GRAVEL SECTION
- REMOVE AND DISPOSE OF EXISTING TREES, STUMPS, AND UNDERBRUSH. SEE LANDSCAPE PLAN FOR EXACT REMOVALS
- SB1 C — SOIL BORING LOCATION
- PROPERTY LINE
- RIGHT OF WAY LINE
- EASEMENT LINE
- SANITARY SEWER PIPE
- STORM SEWER PIPE
- WATERMAIN PIPE
- COMMUNICATIONS UNDERGROUND LINE
- OE — ELECTRIC OVERHEAD LINE
- UE — ELECTRIC UNDERGROUND LINE
- FBC — FIBER OPTIC UNDERGROUND LINE
- GAS — GAS UNDERGROUND LINE
- FENCE

KEY NOTES

1. REMOVE AND DISPOSE OF EXISTING BITUMINOUS PAVEMENT.
2. REMOVE AND DISPOSE OF EXISTING GRAVEL SECTION.
3. REMOVE AND SALVAGE EXISTING STREET SIGN, REMOVE AND DISPOSE OF EXISTING POST AND ANY RELATED FOOTING.
4. REMOVE AND RELOCATE POWER POLE AND OVERHEAD UTILITY LINES. COORDINATE WITH UTILITY COMPANY. SEE SHEET C400-C404 FOR POSSIBLE POLE LOCATIONS.
5. REMOVE AND DISPOSE OF EXISTING STORM SEWER UTILITY.
6. REMOVE AND DISPOSE OF EXISTING HYDRANT.
7. PROTECT EXISTING GAS MAIN. COORDINATE WITH UTILITY PROVIDER IF ANY RELOCATION OF THE MAIN LINE IS REQUIRED FOR CONSTRUCTION.
8. REMOVE AND DISPOSE OF EXISTING RIP-RAP.

DEMOLITION NOTES

1. Verify all existing utility locations.
2. It is the responsibility of the Contractor to perform or coordinate all necessary utility demolitions and relocations from existing utility locations to all onsite amenities and buildings. These connections include, but are not limited to, water, sanitary sewer, cable tv, telephone, gas, electric, site lighting, etc.
3. Prior to beginning work, contact Gopher State Onecall (651-454-0002) to locate utilities throughout the area under construction. The Contractor shall retain the services of a private utility locator to locate the private utilities.
4. Sawcut along edges of pavements, sidewalks, and curbs to remain.
5. All construction shall be performed in accordance with state and local standard specifications for construction.

08-23-2024 PRELIMINARY PLAT SUBMITTAL

NORTH
0 20 40 80

New Lake Elmo Elementary School

Corner of 10th Streen North and
Lake Elmo Avenue North
Lake Elmo MN 55042

INDEPENDENT SCHOOL DISTRICT #834
1875 Greeley St S, Stillwater, MN 55082

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldac.com | 651 227 7773

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

I hereby certify that this plan, specifications 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.

Greg A. Buchal, P.E.

Date: 08.23.2024 Lic. No.: 23793

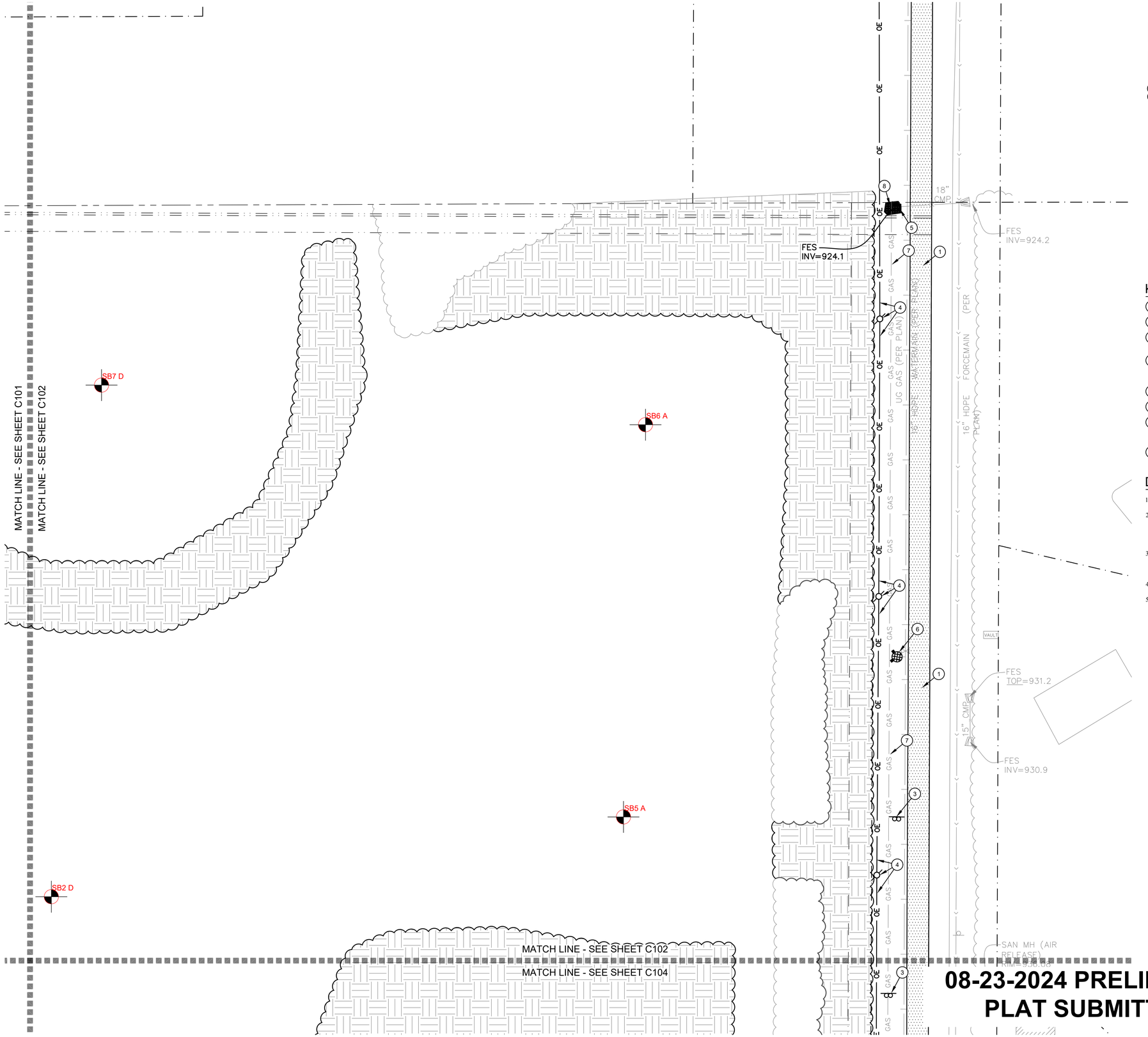
Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: MTH
Check:

North

NORTHWEST: EXISTING CONDITIONS AND DEMOLITION PLAN

C101



SYMBOL LEGEND

- REMOVE AND DISPOSE OF EXISTING BITUMINOUS PAVEMENT SECTION
- REMOVE AND DISPOSE OF EXISTING GRAVEL SECTION
- REMOVE AND DISPOSE OF EXISTING TREES, STUMPS, AND UNDERBRUSH. SEE LANDSCAPE PLAN FOR EXACT REMOVALS
- SB1 C — SOIL BORING LOCATION
- PROPERTY LINE
- RIGHT OF WAY LINE
- EASEMENT LINE
- SANITARY SEWER PIPE
- STORM SEWER PIPE
- WATERMAIN PIPE
- COMMUNICATIONS UNDERGROUND LINE
- ELECTRIC OVERHEAD LINE
- ELECTRIC UNDERGROUND LINE
- FIBER OPTIC UNDERGROUND LINE
- GAS UNDERGROUND LINE
- FENCE

KEY NOTES

1. REMOVE AND DISPOSE OF EXISTING BITUMINOUS PAVEMENT.
2. REMOVE AND DISPOSE OF EXISTING GRAVEL SECTION.
3. REMOVE AND SALVAGE EXISTING STREET SIGN, REMOVE AND DISPOSE OF EXISTING POST AND ANY RELATED FOOTING.
4. REMOVE AND RELOCATE POWER POLE AND OVERHEAD UTILITY LINES. COORDINATE WITH UTILITY COMPANY. SEE SHEET C400-C404 FOR POSSIBLE POLE LOCATIONS.
5. REMOVE AND DISPOSE OF EXISTING STORM SEWER UTILITY.
6. REMOVE AND DISPOSE OF EXISTING HYDRANT.
7. PROTECT EXISTING GAS MAIN. COORDINATE WITH UTILITY PROVIDER IF ANY RELOCATION OF THE MAIN LINE IS REQUIRED FOR CONSTRUCTION.
8. REMOVE AND DISPOSE OF EXISTING RIP-RAP.

DEMOLITION NOTES

1. Verify all existing utility locations.
2. It is the responsibility of the Contractor to perform or coordinate all necessary utility demolitions and relocations from existing utility locations to all onsite amenities and buildings. These connections include, but are not limited to, water, sanitary sewer, cable tv, telephone, gas, electric, site lighting, etc.
3. Prior to beginning work, contact Gopher State Onecall (651-454-0002) to locate utilities throughout the area under construction. The Contractor shall retain the services of a private utility locator to locate the private utilities.
4. Sawcut along edges of pavements, sidewalks, and curbs to remain.
5. All construction shall be performed in accordance with state and local standard specifications for construction.

08-23-2024 PRELIMINARY PLAT SUBMITTAL

NORTH
0 20 40 80

New Lake Elmo Elementary School

Corner of 10th Streen North and
Lake Elmo Avenue North
Lake Elmo MN 55042

INDEPENDENT SCHOOL DISTRICT #834
1875 Greeley St S, Stillwater, MN 55082

Wold

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldac.com | 651 227 7773

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

I hereby certify that this plan, specifications 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.

Greg A. Buchal, P.E.

Date: 08.23.2024 Lic. No.: 23793

Revisions		
Description	Date	Num

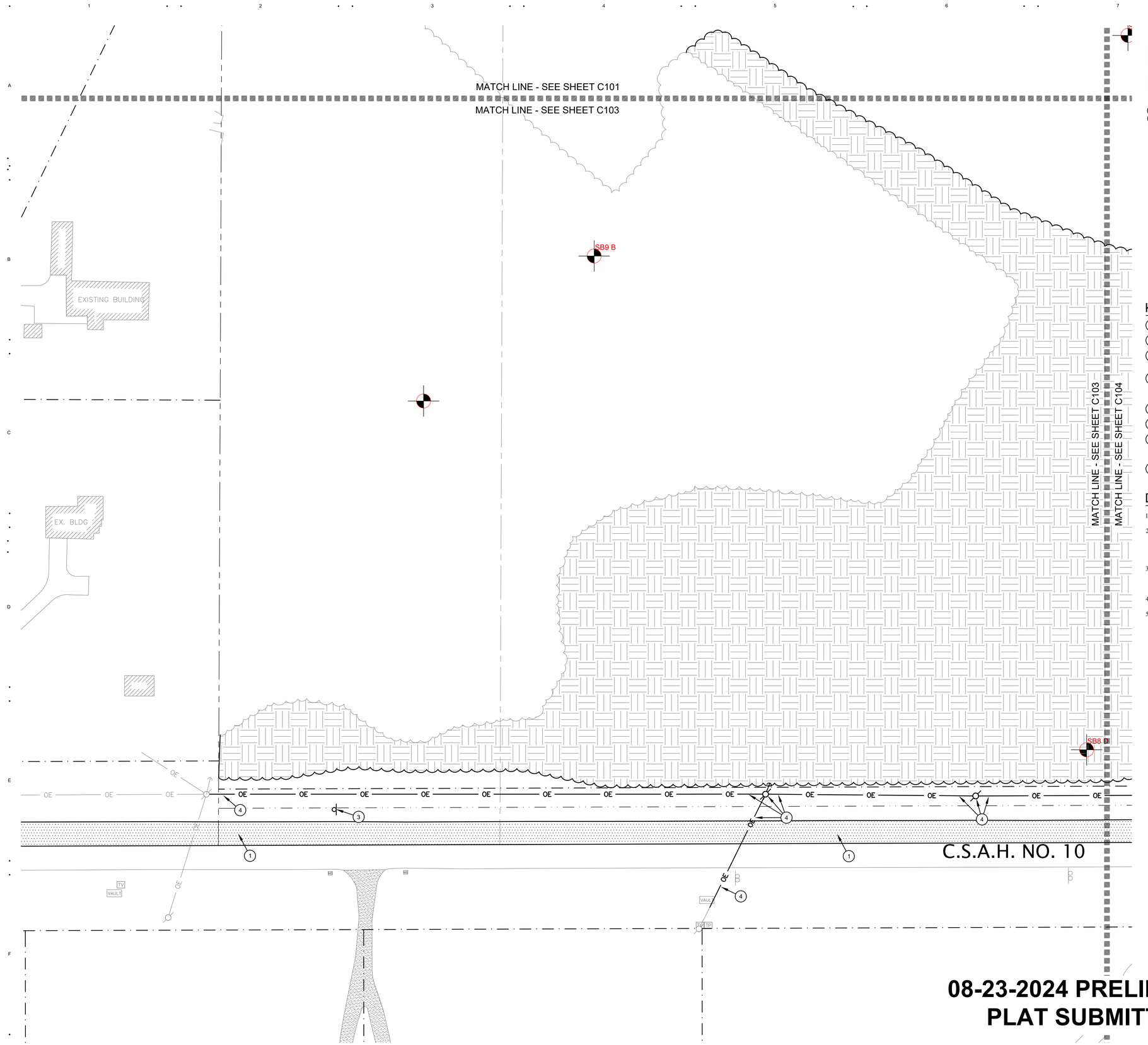
Comm: 12236128
Date: 08-23-2024
Drawn: MTH
Check:

North

NORTHEAST: EXISTING CONDITIONS AND DEMOLITION PLAN

C102

P:\Projects\Projects - 2023\12230128 - New Stillwater Elementary School - Wold\C. Design\Drawing Files\12230128 - C100 Existing Conditions & Demolition Plan.dwg



SYMBOL LEGEND

- REMOVE AND DISPOSE OF EXISTING BITUMINOUS PAVEMENT SECTION
- REMOVE AND DISPOSE OF EXISTING GRAVEL SECTION
- REMOVE AND DISPOSE OF EXISTING TREES, STUMPS, AND UNDERBRUSH. SEE LANDSCAPE PLAN FOR EXACT REMOVALS
- SB1 C — SOIL BORING LOCATION
- PROPERTY LINE
- RIGHT OF WAY LINE
- EASEMENT LINE
- SANITARY SEWER PIPE
- STORM SEWER PIPE
- WATERMAIN PIPE
- COMMUNICATIONS UNDERGROUND LINE
- ELECTRIC OVERHEAD LINE
- ELECTRIC UNDERGROUND LINE
- FIBER OPTIC UNDERGROUND LINE
- GAS UNDERGROUND LINE
- FENCE

KEY NOTES

1. REMOVE AND DISPOSE OF EXISTING BITUMINOUS PAVEMENT.
2. REMOVE AND DISPOSE OF EXISTING GRAVEL SECTION.
3. REMOVE AND SALVAGE EXISTING STREET SIGN, REMOVE AND DISPOSE OF EXISTING POST AND ANY RELATED FOOTING.
4. REMOVE AND RELOCATE POWER POLE AND OVERHEAD UTILITY LINES. COORDINATE WITH UTILITY COMPANY. SEE SHEET C400-C404 FOR POSSIBLE POLE LOCATIONS.
5. REMOVE AND DISPOSE OF EXISTING STORM SEWER UTILITY.
6. REMOVE AND DISPOSE OF EXISTING HYDRANT.
7. PROTECT EXISTING GAS MAIN. COORDINATE WITH UTILITY PROVIDER IF ANY RELOCATION OF THE MAIN LINE IS REQUIRED FOR CONSTRUCTION.
8. REMOVE AND DISPOSE OF EXISTING RIP-RAP.

DEMOLITION NOTES

1. Verify all existing utility locations.
2. It is the responsibility of the Contractor to perform or coordinate all necessary utility demolitions and relocations from existing utility locations to all onsite amenities and buildings. These connections include, but are not limited to, water, sanitary sewer, cable tv, telephone, gas, electric, site lighting, etc.
3. Prior to beginning work, contact Gopher State Onecall (651-454-0002) to locate utilities throughout the area under construction. The Contractor shall retain the services of a private utility locator to locate the private utilities.
4. Sawcut along edges of pavements, sidewalks, and curbs to remain.
5. All construction shall be performed in accordance with state and local standard specifications for construction.

08-23-2024 PRELIMINARY PLAT SUBMITTAL

NORTH
0 20 40 80

New Lake Elmo Elementary School

Corner of 10th Streen North and Lake Elmo Avenue North
Lake Elmo MN 55042

INDEPENDENT SCHOOL DISTRICT #834
1875 Greeley St S, Stillwater, MN 55082

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldac.com | 651 227 7773

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

I hereby certify that this plan, specifications 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.

Greg A. Buchal, P.E.
Date: 08.23.2024 Lic. No.: 23793

Revisions		
Description	Date	Num

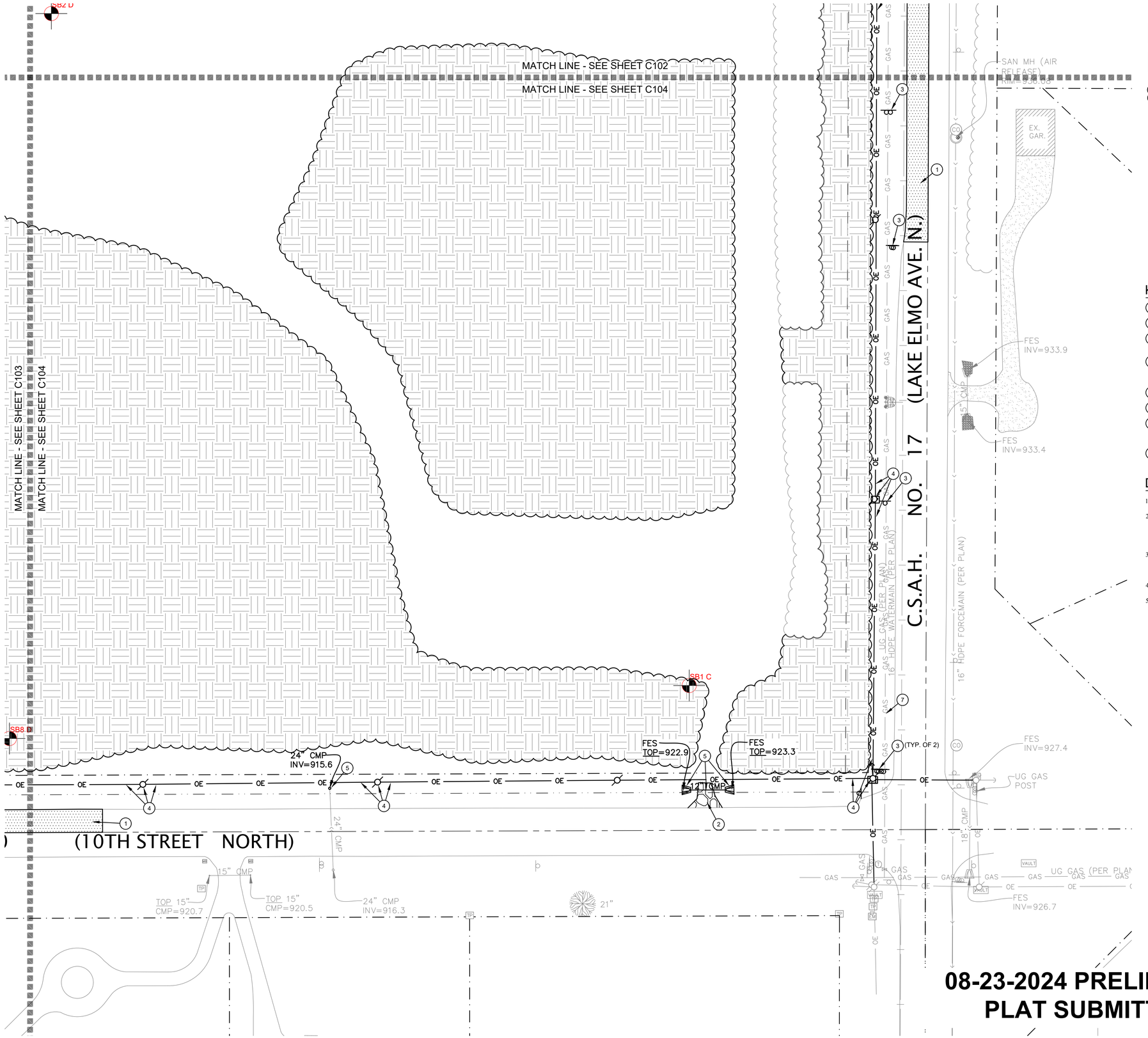
Comm: 12236128
Date: 08-23-2024
Drawn: MTH
Check:

North

SOUTHWEST: EXISTING CONDITIONS AND DEMOLITION PLAN

C103

P:\Projects\Projects - 2023\12236128 - New Stillwater Elementary School - Wold\C_Design\Drawing Files\12236128 - C100 Existing Conditions & Demolition Plan.dwg



MN

A

SYMBOL LEGEND

- REMOVE AND DISPOSE OF EXISTING BITUMINOUS PAVEMENT SECTION
- REMOVE AND DISPOSE OF EXISTING GRAVEL SECTION
- REMOVE AND DISPOSE OF EXISTING TREES, STUMPS, AND UNDERBRUSH. SEE LANDSCAPE PLAN FOR EXACT REMOVALS
- SB1 C — SOIL BORING LOCATION
- PROPERTY LINE
- RIGHT OF WAY LINE
- EASEMENT LINE
- SANITARY SEWER PIPE
- STORM SEWER PIPE
- WATERMAIN PIPE
- COMMUNICATIONS UNDERGROUND LINE
- ELECTRIC OVERHEAD LINE
- ELECTRIC UNDERGROUND LINE
- FIBER OPTIC UNDERGROUND LINE
- GAS UNDERGROUND LINE
- FENCE

KEY NOTES

1. REMOVE AND DISPOSE OF EXISTING BITUMINOUS PAVEMENT.
2. REMOVE AND DISPOSE OF EXISTING GRAVEL SECTION.
3. REMOVE AND SALVAGE EXISTING STREET SIGN, REMOVE AND DISPOSE OF EXISTING POST AND ANY RELATED FOOTING.
4. REMOVE AND RELOCATE POWER POLE AND OVERHEAD UTILITY LINES. COORDINATE WITH UTILITY COMPANY. SEE SHEET C400-C404 FOR POSSIBLE POLE LOCATIONS.
5. REMOVE AND DISPOSE OF EXISTING STORM SEWER UTILITY.
6. REMOVE AND DISPOSE OF EXISTING HYDRANT.
7. PROTECT EXISTING GAS MAIN. COORDINATE WITH UTILITY PROVIDER IF ANY RELOCATION OF THE MAIN LINE IS REQUIRED FOR CONSTRUCTION.
8. REMOVE AND DISPOSE OF EXISTING RIP-RAP.

DEMOLITION NOTES

1. Verify all existing utility locations.
2. It is the responsibility of the Contractor to perform or coordinate all necessary utility demolitions and relocations from existing utility locations to all onsite amenities and buildings. These connections include, but are not limited to, water, sanitary sewer, cable tv, telephone, gas, electric, site lighting, etc.
3. Prior to beginning work, contact Gopher State Onecall (651-454-0002) to locate utilities throughout the area under construction. The Contractor shall retain the services of a private utility locator to locate the private utilities.
4. Sawcut along edges of pavements, sidewalks, and curbs to remain.
5. All construction shall be performed in accordance with state and local standard specifications for construction.

08-23-2024 PRELIMINARY PLAT SUBMITTAL

NORTH
0 20 40 80

New Lake Elmo Elementary School

Corner of 10th Streen North and Lake Elmo Avenue North
Lake Elmo MN 55042

INDEPENDENT SCHOOL DISTRICT #834
1875 Greeley St S, Stillwater, MN 55082

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldac.com | 651 227 7773

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

I hereby certify that this plan, specifications 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.

Greg A. Buchal, P.E.

Date: 08.23.2024 Lic. No.: 23793

Revisions		
Description	Date	Num.

Comm: 12236128
Date: 08-23-2024
Drawn: MTH
Check:

North

SOUTHEAST: EXISTING CONDITIONS AND DEMOLITION PLAN

C104

P:\Projects\Projects - 2023\12236128 - New Stillwater Elementary School - Wold\C. Design\Drawing Files\12236128 - C100 Existing Conditions & Demolition Plan.dwg

MN

DEMOLITION NOTES

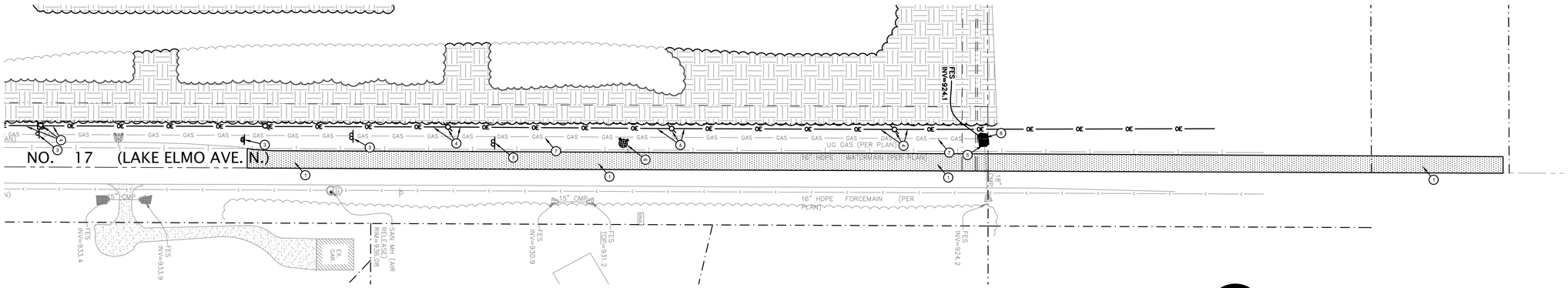
1. Verify all existing utility locations.
2. It is the responsibility of the Contractor to perform or coordinate all necessary utility demolitions and relocations from existing utility locations to all onsite amenities and buildings. These connections include, but are not limited to, water, sanitary sewer, cable tv, telephone, gas, electric, site lighting, etc.
3. Prior to beginning work, contact Gopher State Onecall (651-454-0002) to locate utilities throughout the area under construction. The Contractor shall retain the services of a private utility locator to locate the private utilities.
4. Sawcut along edges of pavements, sidewalks, and curbs to remain.
5. All construction shall be performed in accordance with state and local standard specifications for construction.

KEY NOTES

1. REMOVE AND DISPOSE OF EXISTING BITUMINOUS PAVEMENT.
2. REMOVE AND DISPOSE OF EXISTING GRAVEL SECTION.
3. REMOVE AND SALVAGE EXISTING STREET SIGN, REMOVE AND DISPOSE OF EXISTING POST AND ANY RELATED FOOTING.
4. REMOVE AND RELOCATE POWER POLE AND OVERHEAD UTILITY LINES. COORDINATE WITH UTILITY COMPANY. SEE SHEET C400-C404 FOR POSSIBLE POLE LOCATIONS.
5. REMOVE AND DISPOSE OF EXISTING STORM SEWER UTILITY.
6. REMOVE AND DISPOSE OF EXISTING HYDRANT.
7. PROTECT EXISTING GAS MAIN. COORDINATE WITH UTILITY PROVIDER IF ANY RELOCATION OF THE MAIN LINE IS REQUIRED FOR CONSTRUCTION.
8. REMOVE AND DISPOSE OF EXISTING RIP-RAP.

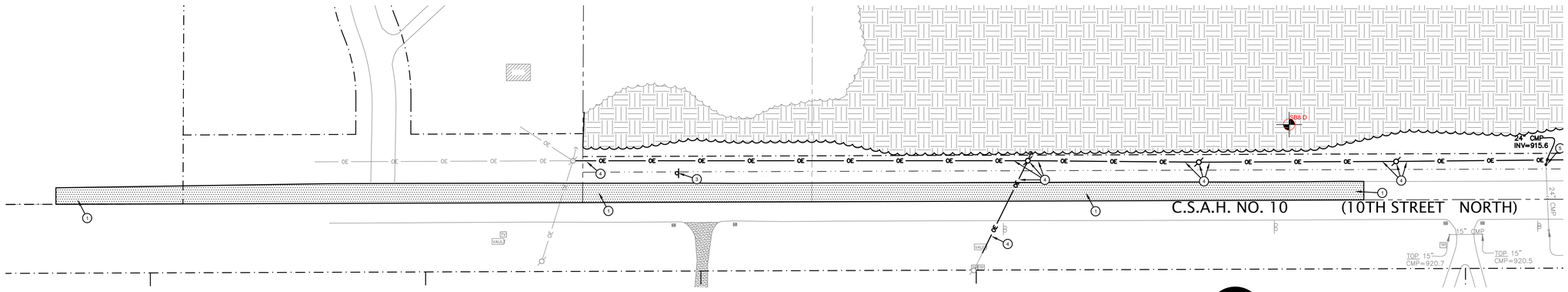
SYMBOL LEGEND

- REMOVE AND DISPOSE OF EXISTING BITUMINOUS PAVEMENT SECTION
- REMOVE AND DISPOSE OF EXISTING GRAVEL SECTION
- REMOVE AND DISPOSE OF EXISTING TREES, STUMPS, AND UNDERBRUSH. SEE LANDSCAPE PLAN FOR EXACT REMOVALS
- SB1 C — SOIL BORING LOCATION
- PROPERTY LINE
- RIGHT OF WAY LINE
- EASEMENT LINE
- SANITARY SEWER PIPE
- STORM SEWER PIPE
- WATERMAIN PIPE
- COMMUNICATIONS UNDERGROUND LINE
- ELECTRIC OVERHEAD LINE
- ELECTRIC UNDERGROUND LINE
- FIBER OPTIC UNDERGROUND LINE
- GAS UNDERGROUND LINE
- FENCE



C.S.A.H. NO.17 (LAKE ELMO AVENUE) SITE ACCESS REMOVALS

NORTH
0 30 60 120



C.S.A.H. NO.10 (10TH STREET NORTH) SITE ACCESS REMOVALS

NORTH
0 30 60 120

08-23-2024 PRELIMINARY PLAT SUBMITTAL

NORTH
0 20 40 80

A

P:\Projects\Projects - 2023\12236128 - New Stillwater Elementary School - Wold\C. Design\Drawing Files\12236128 - C105 Existing Conditions & Demolition Plan.dwg

New Lake Elmo Elementary School

Corner of 10th Streen North and Lake Elmo Avenue North
Lake Elmo MN 55042

INDEPENDENT SCHOOL DISTRICT #834
1875 Greeley St S, Stillwater, MN 55082

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

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

I hereby certify that this plan, specifications 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.

Greg A. Buchal, P.E.

Date: 08.23.2024 Lic. No.: 23793

Revisions		
Description	Date	Num

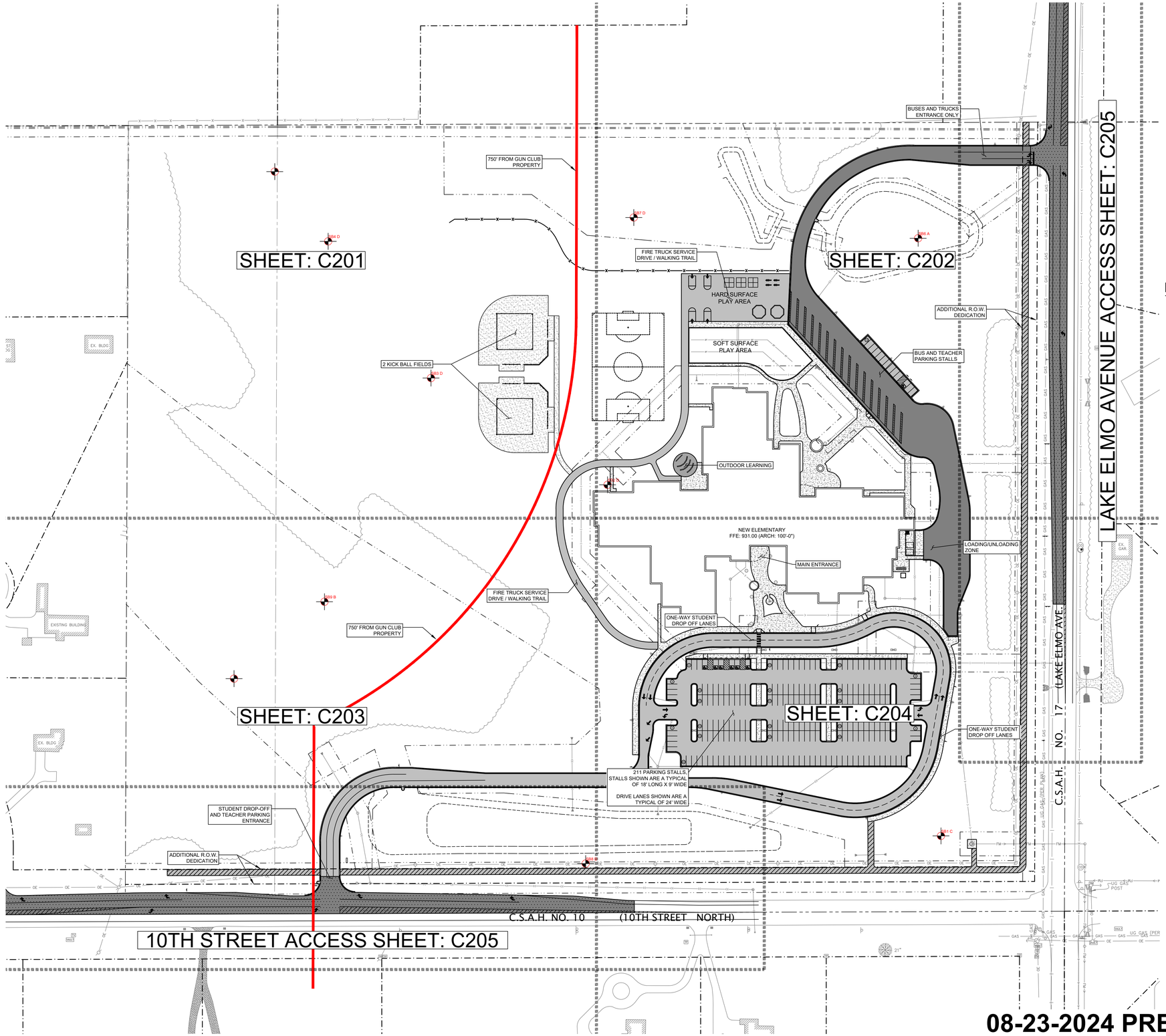
Comm: 12236128
Date: 08-23-2024
Drawn: MTH
Check:

North

SITE ACCESS REMOVALS PLAN

C105

MN



SYMBOL LEGEND

- PROPOSED ROADWAY/TRAILS BITUMINOUS PAVEMENT
- PROPOSED HEAVY-DUTY BITUMINOUS PAVEMENT
- PROPOSED COUNTY ROADWAY PAVEMENT SECTION
- PROPOSED BITUMINOUS TRAIL
- PROPOSED CONCRETE PAVEMENT
- SB1 — SOIL BORING MARKER
- PROPERTY LINE
- EASEMENT LINE
- RIGHT-OF-WAY LINE

PROJECT AREA CALCULATIONS

TOTAL SITE AREA:	2,072,858 SF	(47.59 AC)	100%
IMPERVIOUS AREAS:			
NEW SCHOOL	97,789 SF	(2.24 AC)	4.72%
SIDEWALK/BIT. TRAILS	63,176 SF	(1.45 AC)	3.05%
PARKING/ROADWAYS	181,902 SF	(4.18 AC)	8.77%
SPORTFIELDS/AG-LIME	29,169 SF	(0.67 AC)	0.01%
PAVERS	1,257 SF	(0.03 AC)	0.01%
TOTAL NEW IMPERVIOUS	373,293 SF	(8.57 AC)	18.01%
RIGHT OF WAY:			
EXISTING R.O.W.	142,035 SF	(3.26 AC)	6.85%
PROPOSED R.O.W.	211,177 SF	(4.85 AC)	10.19%
ADDITIONAL R.O.W DEDICATION	69,142 SF	(1.59 AC)	3.33%
OPEN SPACE:			
REMAINING OPEN SPACE	1,699,565 SF	(39.02 AC)	81.99%

08-23-2024 PRELIMINARY PLAT SUBMITTAL

NORTH
0 40 80 160

New Lake Elmo Elementary School

Corner of 10th Streen North and
Lake Elmo Avenue North
Lake Elmo MN 55042

INDEPENDENT SCHOOL DISTRICT #834
1875 Greeley St S, Stillwater, MN 55082

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldac.com | 651 227 7773

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

©2024 Larson Engineering, Inc. All rights reserved.

I hereby certify that this plan, specifications 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.

Greg A. Buchal, P.E.

Date: 08.23.2024 Lic. No.: 23793

Revisions		
Description	Date	Num

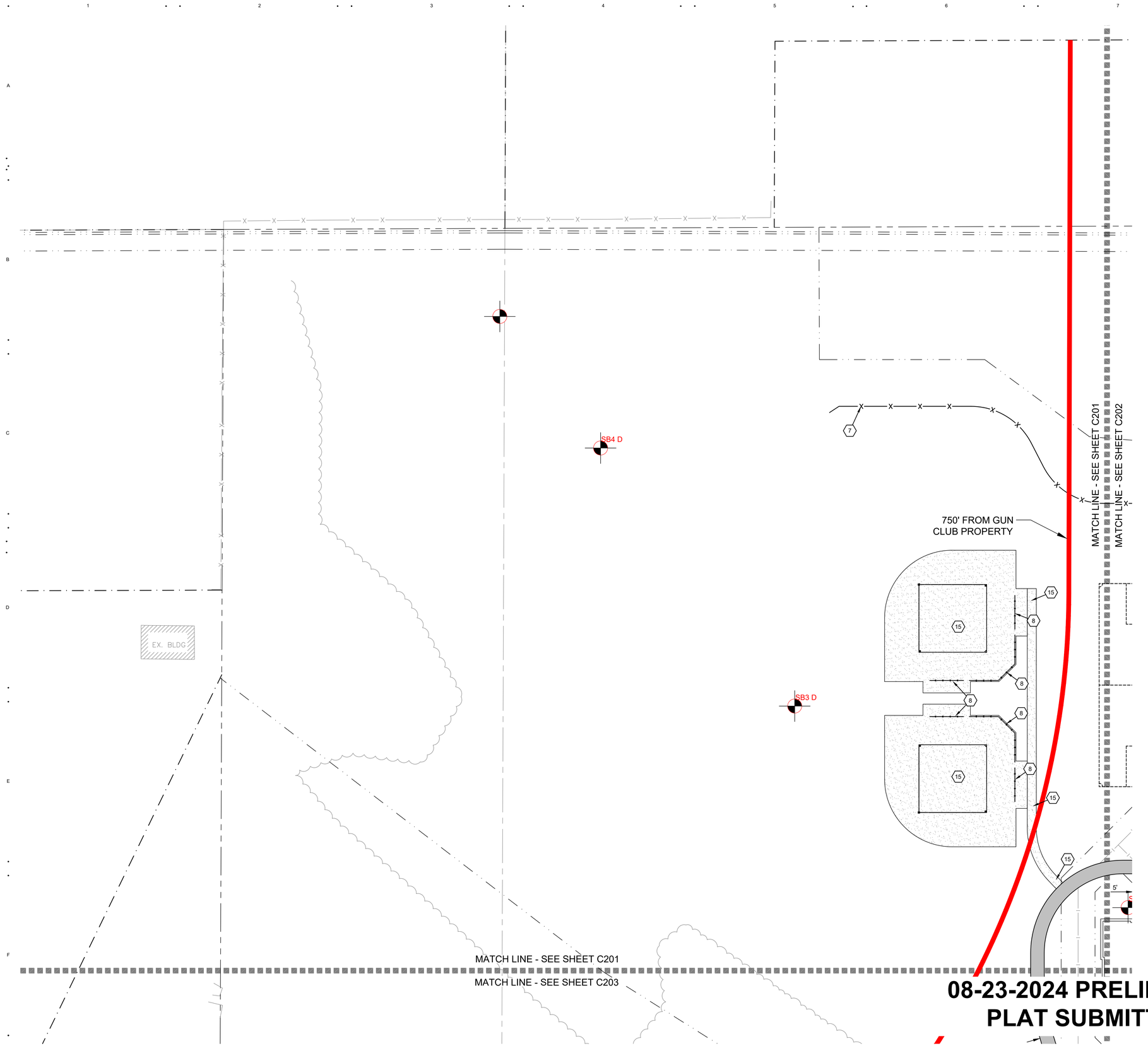
Comm: 12236128
Date: 08-23-2024
Drawn: MTH
Check:

North

OVERALL: SITE PLAN

C200

P:\Projects\Projects - 2023\12236128 - New Stillwater Elementary School - West\C. Design\Drawing Files\12236128 - C200 Site Plan.dwg



P:\Projects\Projects - 2023\12236128 - New Stillwater Elementary School - Wold\C. Design\Drawing Files\12236128 - C200 Site Plan.dwg

SYMBOL LEGEND

- PROPOSED ROADWAY/TRAILS BITUMINOUS PAVEMENT, SEE DETAIL
- PROPOSED HEAVY-DUTY BITUMINOUS PAVEMENT, SEE DETAIL
- PROPOSED COUNTY ROADWAY PAVEMENT SECTION, SEE DETAIL
- PROPOSED BITUMINOUS TRAIL, SEE DETAIL
- PROPOSED CONCRETE PAVEMENT, SEE DETAIL
- PROPOSED AG-LIME, SEE DETAIL
- SB1 — SOIL BORING MARKER
- PROPERTY LINE
- EASEMENT LINE
- RIGHT-OF-WAY LINE

KEY NOTES

1. B612 CONCRETE CURB AND GUTTER, SEE DETAIL
2. VALLEY GUTTER, SEE DETAIL
3. SURMOUNTABLE CONCRETE CURB AND GUTTER, SEE DETAIL
4. ACCESSIBLE CURB RAMP, SEE DETAIL
   - _A: TYPE 1
   - _B: TYPE 2
5. PARKING SIGN AND POST, SEE DETAIL
   - _A: ADA PARKING
   - _B: ADA ACCESS AISLE
   - _C: ADA LOADING
   - _D: STOP
   - _E: DO NOT ENTER
   - _F: BUSES & TRUCKS ONLY
   - _G: LANE USE SIGN
   - _H: PED CROSSING
   - _I: DROP OFF/PICKUP KEEP RIGHT
   - _J: BEGIN ONEWAY
6. PARKING SIGN, POST, AND BOLLARD, SEE DETAIL
   - _A: ADA PARKING
   - _B: ADA ACCESS AISLE
7. 4' TALL CHAIN LINK FENCING, SEE DETAIL
8. BACKSTOP FENCING, SEE DETAIL
9. FLAGPOLE, SEE DETAIL
10. BOLLARD, SEE DETAIL
11. INSTALL SALVAGED STREET SIGN ON NEW POST, SEE DETAIL X/C000
    - _A: STOP
    - _B: COUNTY ROAD 10 MARKER
    - _C: RIGHT LANE MUST TURN
    - _D: WARNING STOP AHEAD
    - _E: COUNTY PARK SIGN
    - _F: COUNTY HIGHWAY SIGN
    - _G: SPEED LIMIT
12. MONUMENT SIGN, SEE ARCH.
13. BASKETBALL HOOP, SEE DETAIL
14. LANDSCAPE WALL, SEE ARCH.
15. AG-LIME, SEE DETAIL
16. SOFT SURFACE PLAY AREA (BY OTHERS)
17. OUTDOOR LEARNING AREA, LANDSCAPE PLAN
18. LOADING DOCK, SEE ARCH.
19. CURB TRANSITION

08-23-2024 PRELIMINARY PLAT SUBMITTAL

NORTH
0 20 40 80

New Lake Elmo Elementary School

Corner of 10th Streen North and Lake Elmo Avenue North
Lake Elmo MN 55042

INDEPENDENT SCHOOL DISTRICT #834
1875 Greeley St S, Stillwater, MN 55082

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

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

I hereby certify that this plan, specifications 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.

Greg A. Buchal, P.E.
Date: 08.23.2024 Lic. No.: 23793

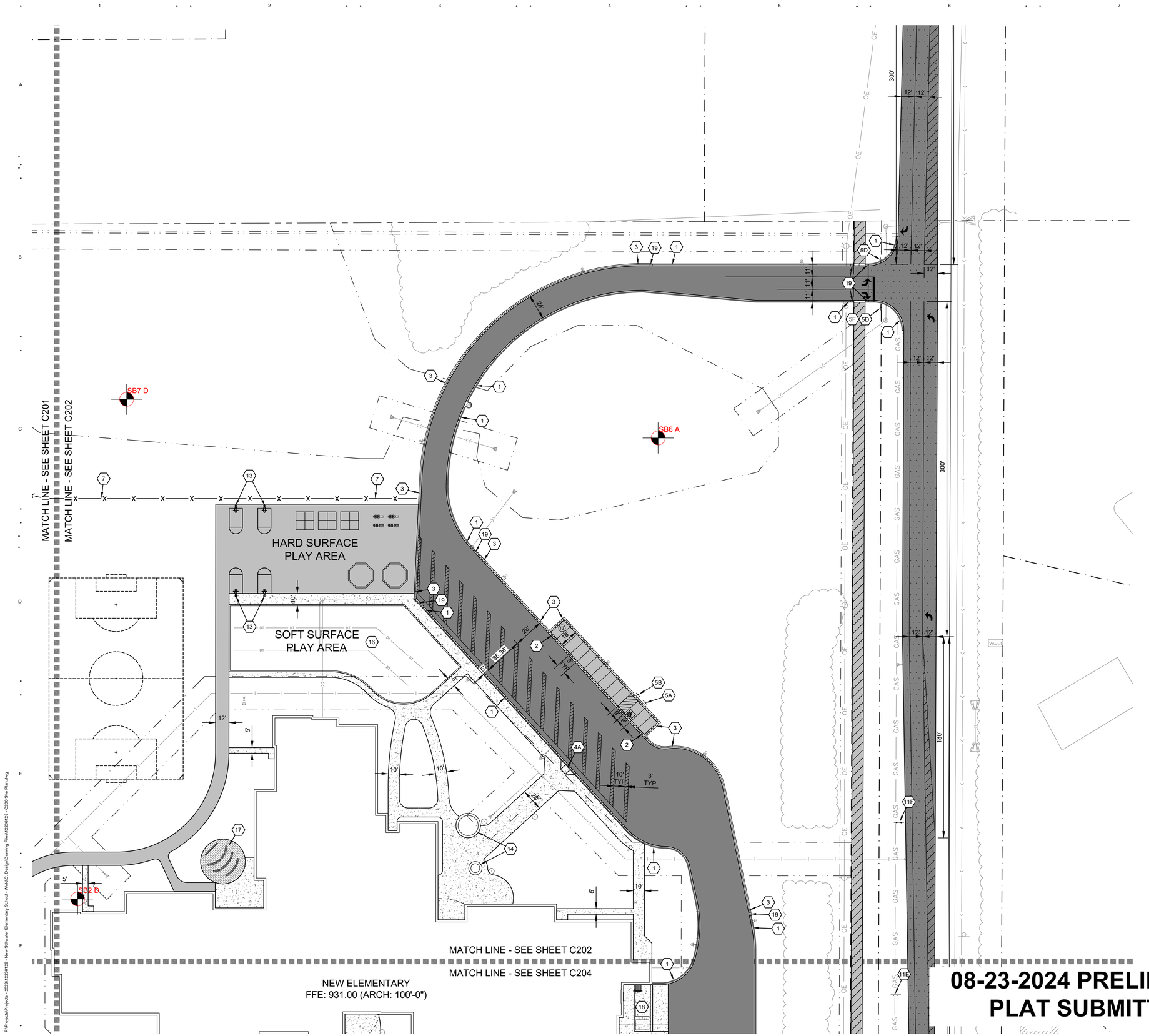
Revisions		
Description	Date	Num.

Comm: 12236128
Date: 08-23-2024
Drawn: MTH
Check:

North

NORTHWEST: SITE PLAN

C201



SYMBOL LEGEND

- PROPOSED ROADWAY/TRAILS BITUMINOUS PAVEMENT, SEE DETAIL
- PROPOSED HEAVY-DUTY BITUMINOUS PAVEMENT, SEE DETAIL
- PROPOSED COUNTY ROADWAY PAVEMENT SECTION, SEE DETAIL
- PROPOSED BITUMINOUS TRAIL, SEE DETAIL
- PROPOSED CONCRETE PAVEMENT, SEE DETAIL
- PROPOSED AG-LIME, SEE DETAIL
- SB1 — SOIL BORING MARKER
- PROPERTY LINE
- EASEMENT LINE
- RIGHT-OF-WAY LINE

KEY NOTES

1. B612 CONCRETE CURB AND GUTTER, SEE DETAIL
2. VALLEY GUTTER, SEE DETAIL
3. SURMOUNTABLE CONCRETE CURB AND GUTTER, SEE DETAIL
4. ACCESSIBLE CURB RAMP, SEE DETAIL
   - _A: TYPE 1
   - _B: TYPE 2
5. PARKING SIGN AND POST, SEE DETAIL
   - _A: ADA PARKING
   - _B: ADA ACCESS AISLE
   - _C: ADA LOADING
   - _D: STOP
   - _E: DO NOT ENTER
   - _F: BUSES & TRUCKS ONLY
   - _G: LANE USE SIGN
   - _H: PED CROSSING
   - _I: DROP OFF/PICKUP KEEP RIGHT
   - _J: BEGIN ONEWAY
6. PARKING SIGN, POST, AND BOLLARD, SEE DETAIL
   - _A: ADA PARKING
   - _B: ADA ACCESS AISLE
7. 4' TALL CHAIN LINK FENCING, SEE DETAIL
8. BACKSTOP FENCING, SEE DETAIL
9. FLAGPOLE, SEE DETAIL
10. BOLLARD, SEE DETAIL
11. INSTALL SALVAGED STREET SIGN ON NEW POST, SEE DETAIL X/C000
    - _A: STOP
    - _B: COUNTY ROAD 10 MARKER
    - _C: RIGHT LANE MUST TURN
    - _D: WARNING STOP AHEAD
    - _E: COUNTY PARK SIGN
    - _F: COUNTY HIGHWAY SIGN
    - _G: SPEED LIMIT
12. MONUMENT SIGN, SEE ARCH.
13. BASKETBALL HOOP, SEE DETAIL
14. LANDSCAPE WALL, SEE ARCH.
15. AG-LIME, SEE DETAIL
16. SOFT SURFACE PLAY AREA (BY OTHERS)
17. OUTDOOR LEARNING AREA, LANDSCAPE PLAN
18. LOADING DOCK, SEE ARCH.
19. CURB TRANSITION

08-23-2024 PRELIMINARY PLAT SUBMITTAL

NORTH
0 20 40 80

New Lake Elmo Elementary School

Corner of 10th Streen North and Lake Elmo Avenue North
Lake Elmo MN 55042

INDEPENDENT SCHOOL DISTRICT #834
1875 Greeley St S, Stillwater, MN 55082

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

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

I hereby certify that this plan, specifications 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.

Greg A. Buchal, P.E.
Date: 08.23.2024 Lic. No.: 23793

Revisions		
Description	Date	Num.

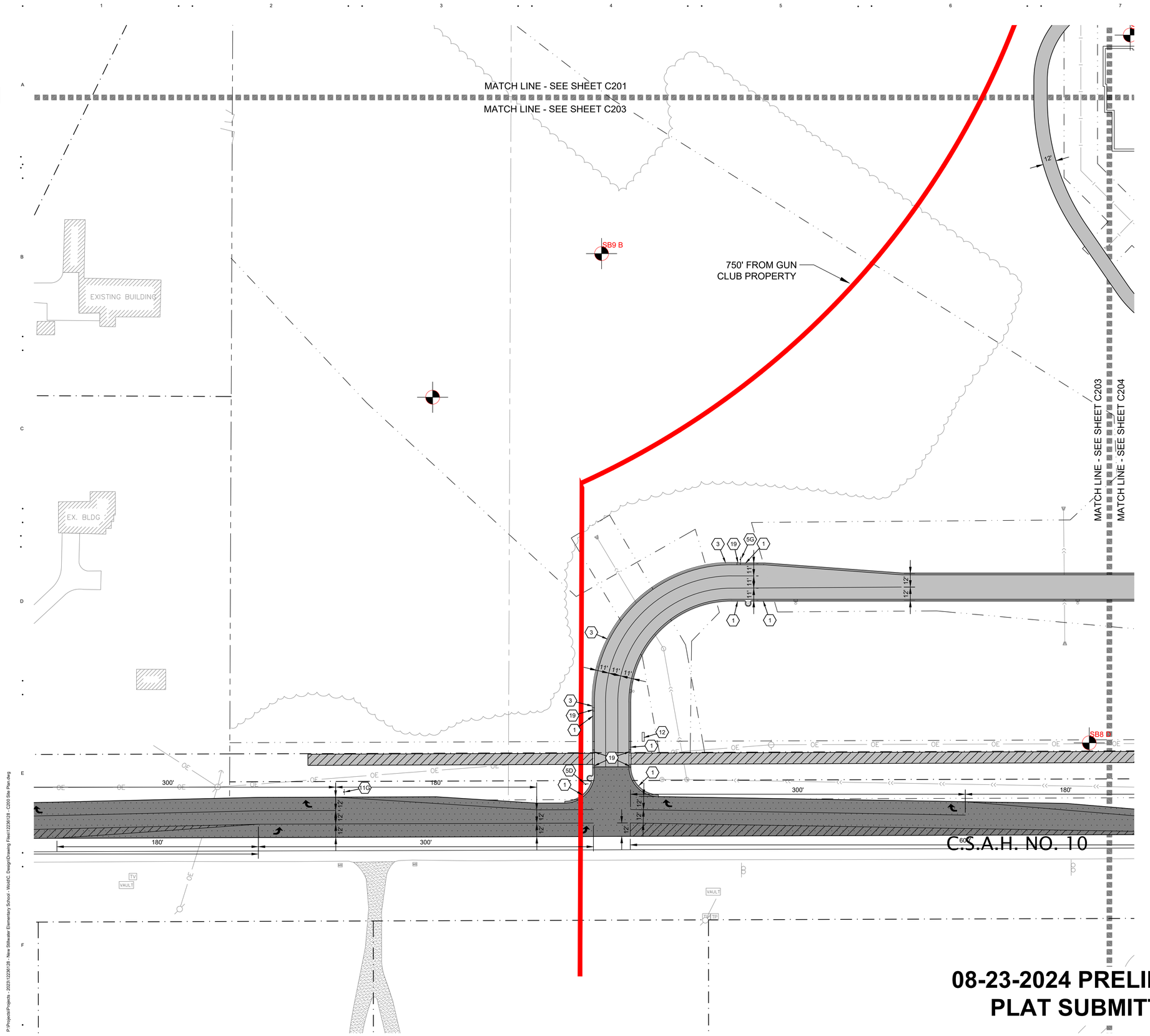
Comm: 12236128
Date: 08-23-2024
Drawn: MTH
Check:

North

NORTHEAST: SITE PLAN

C202

P:\Projects\Projects - 2023\12236128 - New Stillwater Elementary School - Wold\C. Design\Drawing Files\12236128 - C200 Site Plan.dwg



SYMBOL LEGEND

- PROPOSED ROADWAY/TRAILS BITUMINOUS PAVEMENT, SEE DETAIL
- PROPOSED HEAVY-DUTY BITUMINOUS PAVEMENT, SEE DETAIL
- PROPOSED COUNTY ROADWAY PAVEMENT SECTION, SEE DETAIL
- PROPOSED BITUMINOUS TRAIL, SEE DETAIL
- PROPOSED CONCRETE PAVEMENT, SEE DETAIL
- PROPOSED AG-LIME, SEE DETAIL
- SB1 — SOIL BORING MARKER
- PROPERTY LINE
- EASEMENT LINE
- RIGHT-OF-WAY LINE

KEY NOTES

1. B612 CONCRETE CURB AND GUTTER, SEE DETAIL
2. VALLEY GUTTER, SEE DETAIL
3. SURMOUNTABLE CONCRETE CURB AND GUTTER, SEE DETAIL
4. ACCESSIBLE CURB RAMP, SEE DETAIL
   - _A: TYPE 1
   - _B: TYPE 2
5. PARKING SIGN AND POST, SEE DETAIL
   - _A: ADA PARKING
   - _B: ADA ACCESS AISLE
   - _C: ADA LOADING
   - _D: STOP
   - _E: DO NOT ENTER
   - _F: BUSES & TRUCKS ONLY
   - _G: LANE USE SIGN
   - _H: PED CROSSING
   - _I: DROP OFF/PICKUP KEEP RIGHT
   - _J: BEGIN ONEWAY
6. PARKING SIGN, POST, AND BOLLARD, SEE DETAIL
   - _A: ADA PARKING
   - _B: ADA ACCESS AISLE
7. 4' TALL CHAIN LINK FENCING, SEE DETAIL
8. BACKSTOP FENCING, SEE DETAIL
9. FLAGPOLE, SEE DETAIL
10. BOLLARD, SEE DETAIL
11. INSTALL SALVAGED STREET SIGN ON NEW POST, SEE DETAIL X/C000
    - _A: STOP
    - _B: COUNTY ROAD 10 MARKER
    - _C: RIGHT LANE MUST TURN
    - _D: WARNING STOP AHEAD
    - _E: COUNTY PARK SIGN
    - _F: COUNTY HIGHWAY SIGN
    - _G: SPEED LIMIT
12. MONUMENT SIGN, SEE ARCH.
13. BASKETBALL HOOP, SEE DETAIL
14. LANDSCAPE WALL, SEE ARCH.
15. AG-LIME, SEE DETAIL
16. SOFT SURFACE PLAY AREA (BY OTHERS)
17. OUTDOOR LEARNING AREA, LANDSCAPE PLAN
18. LOADING DOCK, SEE ARCH.
19. CURB TRANSITION

08-23-2024 PRELIMINARY PLAT SUBMITTAL

NORTH
0 20 40 80

New Lake Elmo Elementary School

Corner of 10th Streen North and
Lake Elmo Avenue North
Lake Elmo MN 55042

INDEPENDENT SCHOOL DISTRICT #834
1875 Greeley St S, Stillwater, MN 55082

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

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

I hereby certify that this plan, specifications 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.

Greg A. Buchal, P.E.

Date: 08.23.2024 Lic. No.: 23793

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: MTH
Check:

North

SOUTHWEST: SITE PLAN

C203

P:\Projects\Projects - 2023\12236128 - New Stillwater Elementary School - Wold\C Design\Drawing Files\12236128 - C200 Site Plan.dwg

MN

A

MATCH LINE - SEE SHEET C202

MATCH LINE - SEE SHEET C204

NEW ELEMENTARY
FFE: 931.00 (ARCH: 100'-0")

MATCH LINE - SEE SHEET C203

MATCH LINE - SEE SHEET C204

(10TH STREET NORTH)

(LAKE ELMO AVE. NO. 17 C.S.A.H.)

SB1 C

SB8 B

21"

08-23-2024 PRELIMINARY PLAT SUBMITTAL

NORTH

0 20 40 80

P:\Projects\Projects - 2023\12236128 - New Stillwater Elementary School - Wold\C. Design\Drawing Files\12236128 - C200 Site Plan.dwg

SYMBOL LEGEND

- PROPOSED ROADWAY/TRAILS BITUMINOUS PAVEMENT, SEE DETAIL
- PROPOSED HEAVY-DUTY BITUMINOUS PAVEMENT, SEE DETAIL
- PROPOSED COUNTY ROADWAY PAVEMENT SECTION, SEE DETAIL
- PROPOSED BITUMINOUS TRAIL, SEE DETAIL
- PROPOSED CONCRETE PAVEMENT, SEE DETAIL
- PROPOSED AG-LIME, SEE DETAIL
- SB1 — SOIL BORING MARKER
- PROPERTY LINE
- EASEMENT LINE
- RIGHT-OF-WAY LINE

KEY NOTES

1. B612 CONCRETE CURB AND GUTTER, SEE DETAIL
2. VALLEY GUTTER, SEE DETAIL
3. SURMOUNTABLE CONCRETE CURB AND GUTTER, SEE DETAIL
4. ACCESSIBLE CURB RAMP, SEE DETAIL
   - _A: TYPE 1
   - _B: TYPE 2
5. PARKING SIGN AND POST, SEE DETAIL
   - _A: ADA PARKING
   - _B: ADA ACCESS AISLE
   - _C: ADA LOADING
   - _D: STOP
   - _E: DO NOT ENTER
   - _F: BUSES & TRUCKS ONLY
   - _G: LANE USE SIGN
   - _H: PED CROSSING
   - _I: DROP OFF/PICKUP KEEP RIGHT
   - _J: BEGIN ONEWAY
6. PARKING SIGN, POST, AND BOLLARD, SEE DETAIL
   - _A: ADA PARKING
   - _B: ADA ACCESS AISLE
7. 4' TALL CHAIN LINK FENCING, SEE DETAIL
8. BACKSTOP FENCING, SEE DETAIL
9. FLAGPOLE, SEE DETAIL
10. BOLLARD, SEE DETAIL
11. INSTALL SALVAGED STREET SIGN ON NEW POST, SEE DETAIL X/C000
    - _A: STOP
    - _B: COUNTY ROAD 10 MARKER
    - _C: RIGHT LANE MUST TURN
    - _D: WARNING STOP AHEAD
    - _E: COUNTY PARK SIGN
    - _F: COUNTY HIGHWAY SIGN
    - _G: SPEED LIMIT
12. MONUMENT SIGN, SEE ARCH.
13. BASKETBALL HOOP, SEE DETAIL
14. LANDSCAPE WALL, SEE ARCH.
15. AG-LIME, SEE DETAIL
16. SOFT SURFACE PLAY AREA (BY OTHERS)
17. OUTDOOR LEARNING AREA, LANDSCAPE PLAN
18. LOADING DOCK, SEE ARCH.
19. CURB TRANSITION

New Lake Elmo Elementary School

Corner of 10th Streen North and
Lake Elmo Avenue North
Lake Elmo MN 55042

INDEPENDENT SCHOOL DISTRICT #834
1875 Greeley St S, Stillwater, MN 55082

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

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

I hereby certify that this plan, specifications 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.

Greg A. Buchal, P.E.

Date: 08.23.2024 Lic. No.: 23793

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: MTH
Check:

North

SOUTHEAST: SITE PLAN

C204

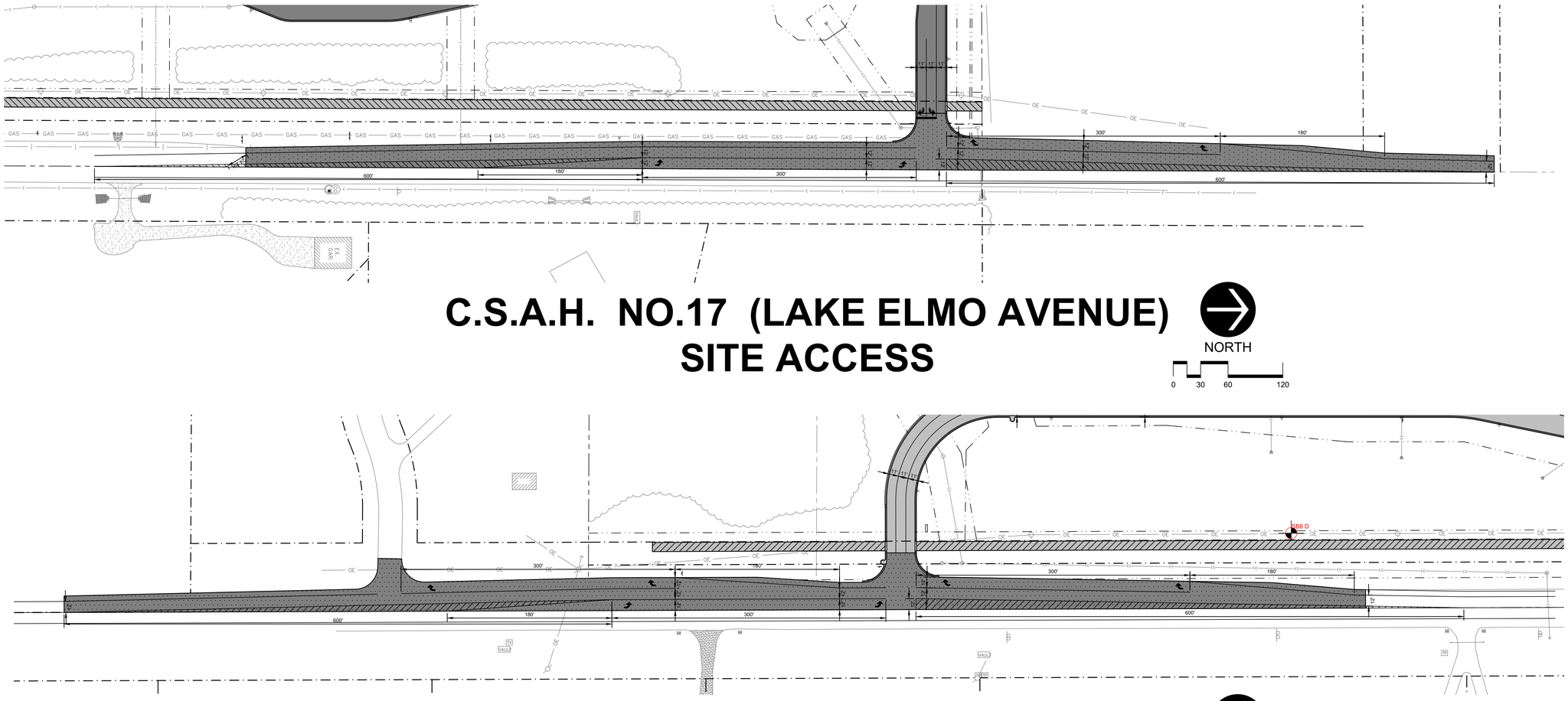
MN

KEY NOTES

1. B612 CONCRETE CURB AND GUTTER, SEE DETAIL
2. VALLEY GUTTER, SEE DETAIL
3. SURMOUNTABLE CONCRETE CURB AND GUTTER, SEE DETAIL
4. ACCESSIBLE CURB RAMP, SEE DETAIL
   - _A: TYPE 1
   - _B: TYPE 2
5. PARKING SIGN AND POST, SEE DETAIL
   - _A: ADA PARKING
   - _B: ADA ACCESS AISLE
   - _C: ADA LOADING
   - _D: STOP
   - _E: DO NOT ENTER
   - _F: BUSES & TRUCKS ONLY
   - _G: LANE USE SIGN
   - _H: PED CROSSING
   - _I: DROP OFF/PICKUP KEEP RIGHT
   - _J: BEGIN ONEWAY
6. PARKING SIGN, POST, AND BOLLARD, SEE DETAIL
   - _A: ADA PARKING
   - _B: ADA ACCESS AISLE
7. 4' TALL CHAIN LINK FENCING, SEE DETAIL
8. BACKSTOP FENCING, SEE DETAIL
9. FLAGPOLE, SEE DETAIL
10. BOLLARD, SEE DETAIL
11. INSTALL SALVAGED STREET SIGN ON NEW POST, SEE DETAIL X/C000
    - _A: STOP
    - _B: COUNTY ROAD 10 MARKER
    - _C: RIGHT LANE MUST TURN
    - _D: WARNING STOP AHEAD
    - _E: COUNTY PARK SIGN
    - _F: COUNTY HIGHWAY SIGN
    - _G: SPEED LIMIT
12. MONUMENT SIGN, SEE ARCH.
13. BASKETBALL HOOP, SEE DETAIL
14. LANDSCAPE WALL, SEE ARCH.
15. AG-LIME, SEE DETAIL
16. SOFT SURFACE PLAY AREA (BY OTHERS)
17. OUTDOOR LEARNING AREA, LANDSCAPE PLAN
18. LOADING DOCK, SEE ARCH.
19. CURB TRANSITION

SYMBOL LEGEND

- PROPOSED ROADWAY/TRAILS BITUMINOUS PAVEMENT, SEE DETAIL
- PROPOSED HEAVY-DUTY BITUMINOUS PAVEMENT, SEE DETAIL
- PROPOSED COUNTY ROADWAY PAVEMENT SECTION, SEE DETAIL
- PROPOSED BITUMINOUS TRAIL, SEE DETAIL
- PROPOSED CONCRETE PAVEMENT, SEE DETAIL
- PROPOSED AG-LIME, SEE DETAIL
- SB1 — SOIL BORING MARKER
- PROPERTY LINE
- EASEMENT LINE
- RIGHT-OF-WAY LINE



C.S.A.H. NO.17 (LAKE ELMO AVENUE) SITE ACCESS

NORTH
0 30 60 120

C.S.A.H. NO.10 (10TH STREET NORTH) SITE ACCESS

NORTH
0 30 60 120

08-23-2024 PRELIMINARY PLAT SUBMITTAL

P:\Projects\Projects - 2023\12236128 - New Stillwater Elementary School - Wold\C. Design\Drawing Files\12236128 - C200 Site Plan.dwg

New Lake Elmo Elementary School

Corner of 10th Streen North and
Lake Elmo Avenue North
Lake Elmo MN 55042

INDEPENDENT SCHOOL DISTRICT #834
1875 Greeley St S, Stillwater, MN 55082

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldac.com | 651 227 7773

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

I hereby certify that this plan, specifications 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.

Greg A. Buchal, P.E.

Date: 08.23.2024 Lic. No.: 23793

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: MTH
Check:

North

SITE ACCESS PLAN

C205

MN

BENCHMARK

ELEVATIONS BASED ON INFORMATION AS SHOWN ON THE TKDA WATERMAIN PLANS – SHEET C502 DATED 4/15/2014. TOP NUT HYDRANT 400 ' N. OF 10TH STREET. ELEVATION = 939.37

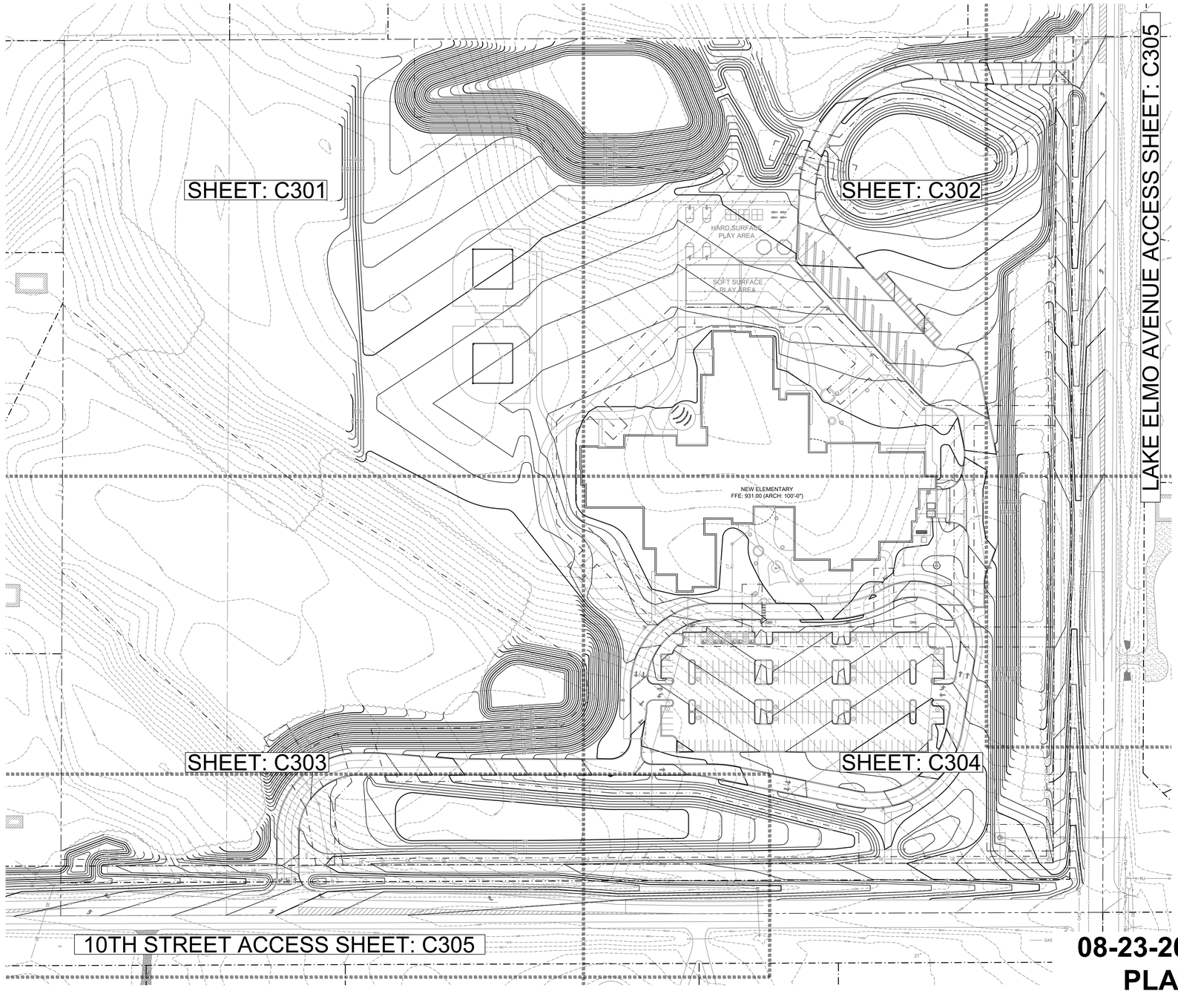
SYMBOL LEGEND

- 950 — EXISTING CONTOURS
- 950 — PROPOSED CONTOURS - MAJOR INTERVAL
- 949 — PROPOSED CONTOURS - MINOR INTERVAL
- 2.0% — GRADE BREAK LINE / GRADE SLOPE
- PROPERTY LINE
- RIGHT OF WAY LINE
- EASEMENT LINE

950.00 TC
949.50 GL

SPOT ABBREVIATIONS:

TC - TOP OF CURB	EOF - EMERGENCY OVERFLOW
GL - GUTTER LINE	OF - OVERFLOW
B - BITUMUNOUS	TW - TOP OF WALL
C - CONCRETE	BW - BOTTOM OF WALL (F/G)
G - GRADE	AG - AGLIME
	(*) - EXISTING TO BE VERIFIED



CITY OF LAKE ELMO GRADING AND EROSION STANDARD PLAN NOTES

1. THE CONTRACTOR SHALL CONDUCT OPERATIONS AND IMPLEMENT MINNESOTA POLLUTION CONTROL AGENCY (MPCA) BEST MANAGEMENT PRACTICES (BMP) TO CONTROL SITE SILTATION AND EROSION INTO DRAINAGE WAYS. THE CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS AND COMPLETION DATES RELATIVE TO ALL PERMITS ISSUED FOR THE WORK TO BE COMPLETED. THE ENGINEER MAY ISSUE A STOP WORK ORDER FOR ALL DEVELOPMENT WORK AND BUILDING CONSTRUCTION FOR NONCOMPLIANCE WITH THESE MEASURES.
2. SEQUENCING. ALL SILT FENCE AND OTHER EROSION CONTROL MEASURES SHALL BE IN PLACE AND APPROVED BY ENGINEER PRIOR TO ANY REMOVALS, EXCAVATION OR CONSTRUCTION AND SHALL BE MAINTAINED UNTIL VIABLE TURF OR GROUND COVER HAS BEEN ESTABLISHED AND APPROVED BY THE ENGINEER.
3. SILT FENCE. THE CONTRACTOR SHALL INSTALL SILT FENCE AT THE LOCATIONS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE CITY STANDARD DETAILS. SILT FENCE DAMS AND INTERIM SUMPS SHALL BE PLACED TO INTERCEPT SILT FROM CONCENTRATED RUNOFF FROM OPEN GRADED AREAS. ADDITIONAL SILT FENCE SHALL BE REQUIRED AS DIRECTED BY THE ENGINEER.
4. STOCKPILES. ALL STOCKPILE AREAS SHALL HAVE SILT FENCE OR SEDIMENT TRAPPING SYSTEMS PLACED AROUND THE ENTIRE PERIMETER.
5. INLET PROTECTION. THE CONTRACTOR SHALL INSTALL INLET PROTECTION ON ALL EXISTING STORM SEWER INLETS IN ACCORDANCE WITH THE CITY STANDARD DETAILS. INLET PROTECTION SHALL ALSO BE PROVIDED ON ALL PROPOSED STORM SEWER INLETS IMMEDIATELY FOLLOWING CONSTRUCTION OF THE INLET. INLET PROTECTION MUST BE INSTALLED IN A MANNER THAT WILL NOT IMPOUND WATER FOR EXTENDED PERIODS OF TIME OR IN A MANNER THAT PRESENTS A HAZARD TO VEHICULAR OR PEDESTRIAN TRAFFIC.
6. TEMPORARY SEDIMENT BASINS. THE CONTRACTOR SHALL INCORPORATE TEMPORARY SEDIMENT BASINS THROUGHOUT THE CONSTRUCTION SITE TO CAPTURE RUNOFF AND SLOW THE FLOW OF WATER AND ALLOW SEDIMENT TO SETTLE OUT. TEMPORARY SEDIMENT BASINS SHALL BE INSTALLED AS DIRECTED BY THE CITY ENGINEER.
7. ROCK CONSTRUCTION ENTRANCE. A ROCK ENTRANCE SHALL BE CONSTRUCTED AND MAINTAINED AS SHOWN ON THE PLAN TO REDUCE TRACKING OF SILT AND DIRT ONTO THE PUBLIC STREETS. A GEOTEXTILE FABRIC SHALL BE PLACED UNDERNEATH THE ROCK. THE ROCK SHALL BE PERIODICALLY REPLENISHED TO MAINTAIN THE INTENDED PERFORMANCE. MUD AND DEBRIS SHALL BE REMOVED OR SCRAPED FROM TIRES AND VEHICLE UNDERCARRIAGE PRIOR TO LEAVING THE SITE.
8. STREET SWEEPING. ALL STREETS USED FOR ACCESS TO THE SITE AND HAUL ROUTES USED FOR CONSTRUCTION EQUIPMENT AND MATERIAL SUPPLIES SHALL BE CLEANED AT THE END OF EACH WORKING DAY. THE CITY OR ENGINEER MAY ORDER ADDITIONAL SWEEPING OF THE STREETS AS DEEMED REQUIRED AT DEVELOPER/CONTRACTOR EXPENSE.
9. DEWATERING. EACH EXCAVATION SHALL BE KEPT DRY DURING THE COURSE OF ALL WORK HEREIN, INCLUDING SUBGRADE CORRECTION, PIPE INSTALLATION, STRUCTURE CONSTRUCTION AND BACKFILLING, TO THE EXTENT THAT NO DAMAGE FROM HYDROSTATIC PRESSURE, FLOATATION OR OTHER DAMAGE RESULTS. ALL EXCAVATIONS SHALL BE DEWATERED TO A DEPTH OF AT LEAST .5 INCHES BELOW THE BOTTOM OF THE CONCRETE SLAB OR PIPE TO BE INSTALLED THEREIN. THE CONTRACTOR MAY USE ANY METHOD OR COMBINATION OF METHODS FOR DEWATERING HE CHOOSES; HOWEVER, ALL DEWATERING METHODS AND EQUIPMENT WHICH IN THE OPINION OF THE ENGINEER, ARE INEFFECTIVE SHALL BE ABANDONED, IMPROVED, REPLACED OR THERWISE ALTERED TO OBTAIN EFFECTIVE DEWATERING. THE CONTRACTOR SHALL PROVIDE ALL POWER, PUMPS, MATERIALS AND APPARATUS NECESSARY, AND SHALL BE RESPONSIBLE FOR DISPOSING OF THE WATER PUMPED FROM THE EXCAVATION IN A MANNER WHICH WILL NOT INTERFERE WITH OTHER WORK WITHIN THE AREA AND NOT TO DAMAGE PUBLIC OR PRIVATE PROPERTY. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE CONDITION OF ANY PIPE, CONDUIT, DITCH, CHANNEL OR NATURAL WATERCOURSE UTILIZED FOR DRAINAGE PURPOSES, AND ALL EROSION, SEDIMENT OR OTHER ADVERSE RESULTS OF THEIR USE SHALL BE REPAIRED.
10. POSITIVE DRAINAGE AND PROTECTION. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE THROUGHOUT THE SITE AT ALL TIMES. LOW POINTS WITHIN AND ALONG ROADWAYS ARE EXPRESSLY PROHIBITED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY DITCHES, PIPING OR OTHER MEANS TO FACILITATE PROPER DRAINAGE DURING CONSTRUCTION. TO PROTECT PREVIOUSLY GRADED AREAS FROM EROSION, WOOD FIBER BLANKET SHALL BE PLACED IMMEDIATELY ON STEEP SLOPES (1:3 OR GREATER) AND EMBANKMENTS, PERMANENT AND TEMPORARY PONDS, AND OUTLETS AND OVERFLOWS TO PROTECT THE COMPLETED GRADE AND MINIMIZE SILT IN THE RUNOFF.
11. DRAINAGE DITCHES. THE NORMAL WETTED PERIMETER OF ANY TEMPORARY OR PERMANENT DRAINAGE DITCH OR SWALE THAT DRAINS WATER FROM ANY PORTION OF THE CONSTRUCTION SITE, OR DIVERTS WATER AROUND THE SITE, MUST BE STABILIZED WITHIN 200 LINEAL FEET FROM THE PROPERTY EDGE, OR FROM THE POINT OF DISCHARGE INTO ANY SURFACE WATER. STABILIZATION OF THE LAST 200 LINEAL FEET MUST BE COMPLETED WITHIN 24 HOURS AFTER CONNECTING TO A SURFACE WATER. STABILIZATION OF THE REMAINING PORTIONS OF ANY TEMPORARY OR PERMANENT DITCHES OR SWALES MUST BE COMPLETE WITHIN 14 DAYS AFTER CONNECTING TO A SURFACE WATER AND CONSTRUCTION IN THAT PORTION OF THE DITCH HAS TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY OR PERMANENT DITCHES OR SWALES THAT ARE BEING USED AS A SEDIMENT CONTAINMENT SYSTEM (WITH PROPERLY DESIGNED ROCK DITCH CHECKS, BIO ROLLS, SILT DIKES, ETC.) DO NOT NEED TO BE STABILIZED. THESE AREAS MUST BE STABILIZED WITHIN 24 HOURS AFTER NO LONGER BEING USED AS A SEDIMENT CONTAINMENT SYSTEM.
12. TURF ESTABLISHMENT. ALL EXPOSED SOIL AREAS MUST BE STABILIZED AS SOON AS POSSIBLE TO LIMIT SOIL EROSION BUT IN NO CASE LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
13. MAINTENANCE AND INSPECTION. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND UNTIL SATISFACTORY ESTABLISHMENT OF PERMANENT GROUND COVER IS OBTAINED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES, AND STORMWATER OUTFALLS MUST BE INSPECTED WEEKLY, AND WITHIN 24 HOURS OF THE SITE RECEIVING 0.5 INCHES OF RAIN. REPAIRS MUST BE MADE ON THE SAME DAY OR FOLLOWING DAY OF THE INSPECTION. UNSATISFACTORY CONDITIONS NOT REPAIRED OR CLEANED UP WITHIN 48-HOURS OF NOTIFICATION SHALL RESULT IN A STOP WORK ORDER, AND/OR SAID WORK SHALL BE COMPLETED AT CONTRACTOR'S EXPENSE.
14. REMOVAL. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL TEMPORARY EROSION CONTROL MEASURES, STRUCTURES AND DEVICES ONLY AFTER RECEIVING ENGINEER APPROVAL. ALL DEBRIS, STAKES, AND SILTS ALONG SILT FENCES SHALL BE REMOVED AND DISPOSED OFF SITE. THE CONTRACTOR SHALL HAND RAKE SILTED AREAS ALONG THE FENCE LOCATIONS TO PROVIDE A SMOOTH FINAL GRADE AND SHALL RESTORE THE GROUND SURFACE WITH SEED OR SOD, AS REQUIRED, TO MATCH THE FINISHED GRADE TO THE ADJACENT AREA.
15. FINAL STORM SEWER SYSTEM. AT THE COMPLETION OF THE WORK AND BEFORE THE FINAL WALK THROUGH, THE CONTRACTOR SHALL REMOVE STORM SEWER INLET PROTECTION MEASURES AND THOROUGHLY FLUSH THE STORM SEWER SYSTEM. SEDIMENT AND DEBRIS SHALL BE COMPLETELY REMOVED AND CLEANED AT THE INLETS, OUTLETS, AND DOWNSTREAM OF EACH OUTLET. RIPRAP AND GEOTEXTILE FABRIC MAY REQUIRE REPLACEMENT AS DIRECTED BY THE ENGINEER TO OBTAIN A LIKE NEW INSTALLATION ACCEPTABLE TO THE CITY
16. DITCH CHECK (BIOROLL BLANKET SYSTEM). BIOROLL AND BLANKET SYSTEMS SHALL BE INSTALLED AS DITCH CHECKS ONLY IN SPECIFIED LOCATIONS AS APPROVED BY THE CITY ENGINEER. BIOROLLS ARE NOT TO BE UTILIZED IN AREAS WHERE VEHICLE AND CONSTRUCTION TRAFFIC OCCUR.
17. FLOTATION SILT CURTAIN. FLOTATION SILT CURTAIN SHALL BE UTILIZED WHEN CONSTRUCTION ACTIVITIES OCCUR DIRECTLY ADJACENT TO LAKES, STREAMS OR WETLANDS IN ORDER TO CONTAIN SEDIMENTS NEAR THE BANKS OF WORKING AREAS. THE INSTALLATION OF FLOTATION SILT CURTAINS WILL BE REQUIRED AS DIRECTED BY THE CITY ENGINEER.
18. CONCRETE WASHOUT ONSITE. ALL LIQUID AND SOLID WASTES GENERATED BY CONCRETE WASHOUT OPERATIONS MUST BE CONTAINED IN A LEAK-PROOF CONTAINMENT FACILITY OR IMPERMEABLE LINER. A COMPACTED CLAY LINER THAT DOES NOT ALLOW WASHOUT LIQUIDS TO ENTER GROUND WATER IS CONSIDERED AN IMPERMEABLE LINER. THE LIQUID AND SOLID WASTES MUST NOT CONTACT THE GROUND, AND THERE MUST NOT BE RUNOFF FROM THE CONCRETE WASHOUT OPERATIONS OR AREAS. LIQUID AND SOLID WASTES MUST BE DISPOSED OF PROPERLY AND IN COMPLIANCE WITH MPCA REGULATIONS. A SIGN MUST BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.

GRADING NOTES

1. Tree protection consisting of snow fence or safety fence installed at the drip line shall be in place prior to beginning any grading or demolition work at the site.
2. All elevations with an asterisk (*) shall be field verified. If elevations vary significantly, notify the Engineer for further instructions.
3. Grades shown in paved areas represent finish elevation.
4. All construction shall be performed in accordance with state and local standard specifications for construction.
5. Permittees must not excavate infiltration systems to final grade, or within three (3) feet of final grade, until the contributing drainage area has been constructed and fully stabilized unless they provide rigorous erosion prevention and sediment controls (e.g., diversion berms) to keep sediment and runoff completely away from the infiltration area.

08-23-2024 PRELIMINARY PLAT SUBMITTAL

NORTH
0 40 80 160

New Lake Elmo Elementary School

Corner of 10th Streen North and Lake Elmo Avenue North
Lake Elmo MN 55042

INDEPENDENT SCHOOL DISTRICT #834
1875 Greeley St S, Stillwater, MN 55082

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldac.com | 651 227 7773

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

I hereby certify that this plan, specifications 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.

Greg A. Buchal, P.E.

Date: 08.23.2024 Lic. No.: 23793

Revisions		
Description	Date	Num

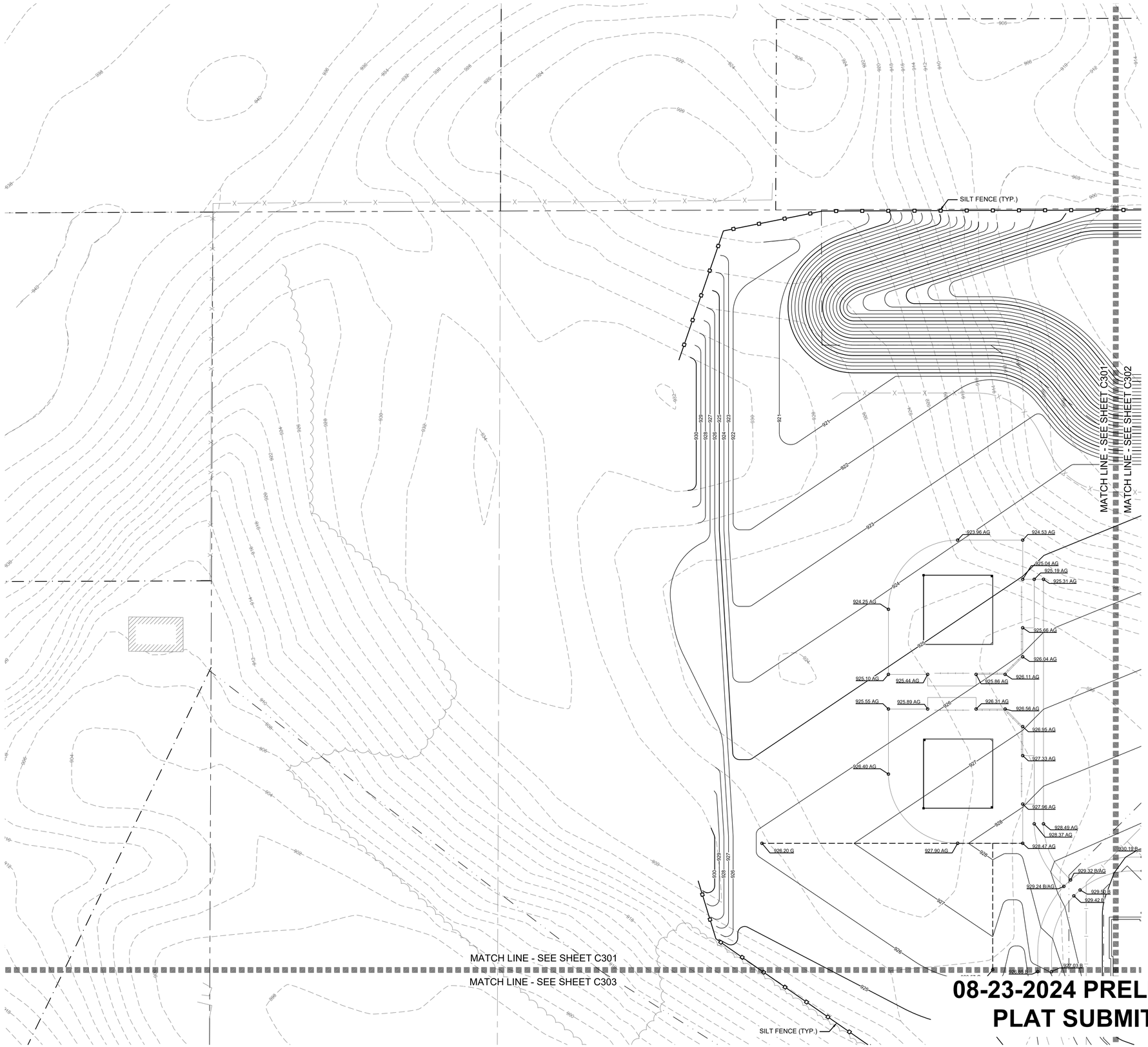
Comm: 12236128
Date: 08-23-2024
Drawn: MTH
Check:

North

OVERALL: GRADING AND EROSION CONTROL PLAN

C300

P:\Projects\Projects - 2023\12236128 - New Stillwater Elementary School - Wold\C. Design\Drawing Files\12236128 - C300 Grading & Erosion Control Plan.dwg



MN

A

P:\Projects\Projects - 2023\12236128 - New Stillwater Elementary School - Wold\C. Design\Drawing Files\12236128 - C300 Grading & Erosion Control Plan.dwg

SYMBOL LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS - MAJOR INTERVAL
- PROPOSED CONTOURS - MINOR INTERVAL
- GRADE BREAK LINE
- GRADE SLOPE (2.0%)
- PROPERTY LINE
- RIGHT OF WAY LINE
- EASEMENT LINE
- SEDIMENT LOG, SEE DETAIL X/CX00
- SEDIMENT LOG, SEE DETAIL X/CX00
- RIP-RAP / ROCK CONST. ENTRANCE SEE DETAIL X/CX00 OR X/CX00 OR X/CX00
- INLET PROTECTION, SEE DETAIL X/CX00

SPOT ABBREVIATIONS: (950.00 TC / 949.50 GL)

TC - TOP OF CURB	EOF - EMERGENCY OVERFLOW
GL - GUTTER LINE	OF - OVERFLOW
B - BITUMUNOUS	TW - TOP OF WALL
C - CONCRETE	BW - BOTTOM OF WALL (F/G)
G - GRADE	AG - AGLIME
	(*) - EXISTING TO BE VERIFIED

GRADING NOTES

1. Tree protection consisting of snow fence or safety fence installed at the drip line shall be in place prior to beginning any grading or demolition work at the site.
2. All elevations with an asterisk (*) shall be field verified. If elevations vary significantly, notify the Engineer for further instructions.
3. Grades shown in paved areas represent finish elevation.
4. All construction shall be performed in accordance with state and local standard specifications for construction.
5. Permittees must not excavate infiltration systems to final grade, or within three (3) feet of final grade, until the contributing drainage area has been constructed and fully stabilized unless they provide rigorous erosion prevention and sediment controls (e.g., diversion berms) to keep sediment and runoff completely away from the infiltration area.

CITY NOTES

1. See sheet C300 for City of Lake Elmo Grading and Erosion Standard Plan notes.

BENCHMARK

ELEVATIONS BASED ON INFORMATION AS SHOWN ON THE TKDA WATERMAIN PLANS - SHEET C502 DATED 4/15/2014. TOP NUT HYDRANT 400 ' N. OF 10TH STREET. ELEVATION = 939.37

08-23-2024 PRELIMINARY PLAT SUBMITTAL

NORTH
0 20 40 80

New Lake Elmo Elementary School

Corner of 10th Streen North and Lake Elmo Avenue North
Lake Elmo MN 55042

INDEPENDENT SCHOOL DISTRICT #834
1875 Greeley St S, Stillwater, MN 55082

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldac.com | 651 227 7773

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

I hereby certify that this plan, specifications 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.

Greg A. Buchal, P.E.

Date: 08.23.2024 Lic. No.: 23793

Revisions		
Description	Date	Num.

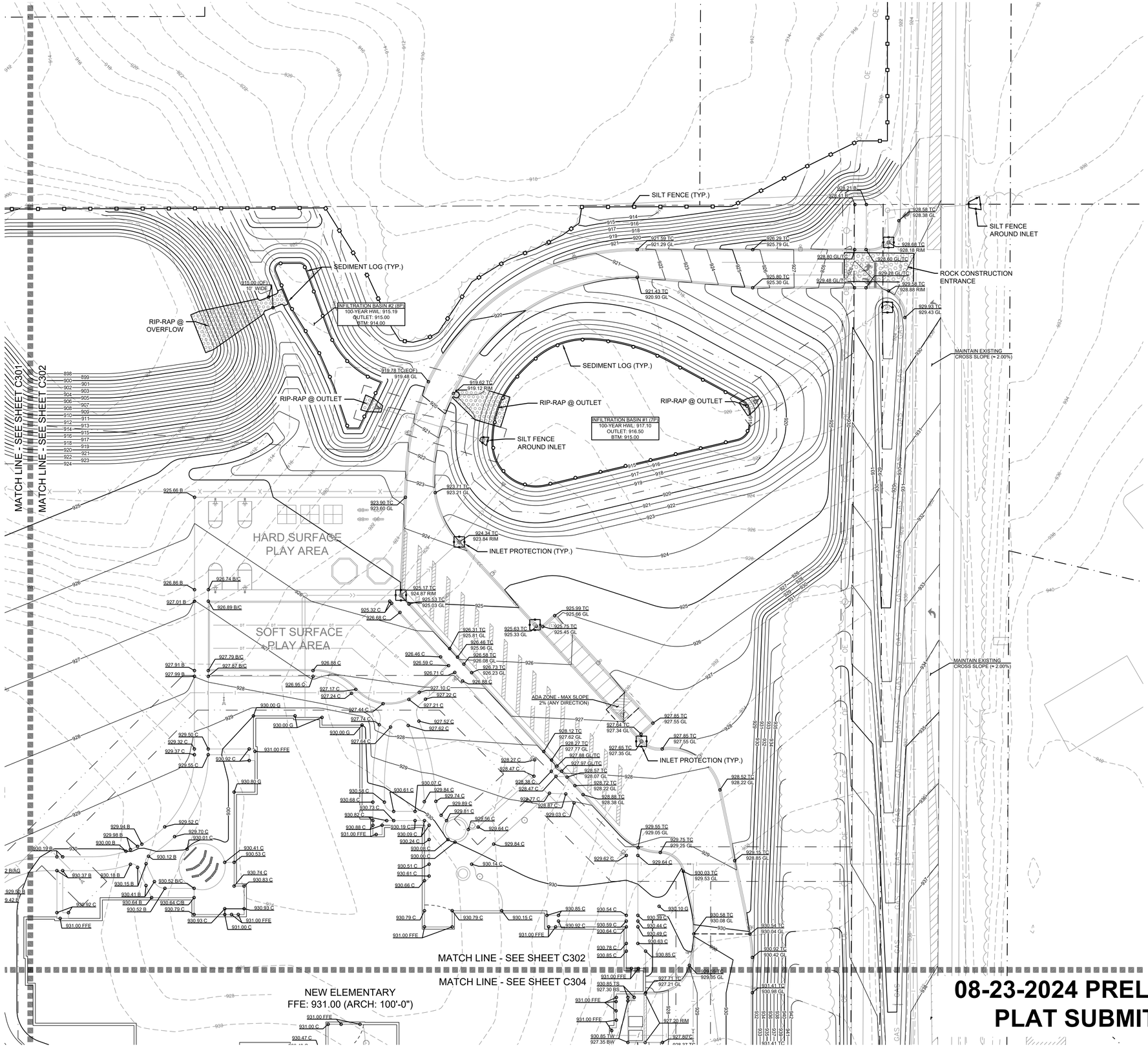
Comm: 12236128
Date: 08-23-2024
Drawn: MTH
Check:

North

NORTHWEST: GRADING AND EROSION CONTROL PLAN

C301

MN



A

P:\Projects\Projects - 2023\12236128 - New Stillwater Elementary School - Wold\C. Design\Drawing Files\12236128 - C300 Grading & Erosion Control Plan.dwg

SYMBOL LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS - MAJOR INTERVAL
- PROPOSED CONTOURS - MINOR INTERVAL
- GRADE BREAK LINE
- GRADE SLOPE (2.0%)
- PROPERTY LINE
- RIGHT OF WAY LINE
- EASEMENT LINE
- SEDIMENT LOG, SEE DETAIL X/CX00
- SEDIMENT LOG, SEE DETAIL X/CX00
- RIP-RAP / ROCK CONST. ENTRANCE SEE DETAIL X/CX00 OR X/CX00 OR X/CX00
- INLET PROTECTION, SEE DETAIL X/CX00

SPOT ABBREVIATIONS: (950.00 TC / 949.50 GL)

TC - TOP OF CURB	EOF - EMERGENCY OVERFLOW
GL - GUTTER LINE	OF - OVERFLOW
B - BITUMUNOUS	TW - TOP OF WALL
C - CONCRETE	BW - BOTTOM OF WALL (F/G)
G - GRADE	AG - AGLIME
	(*) - EXISTING TO BE VERIFIED

GRADING NOTES

1. Tree protection consisting of snow fence or safety fence installed at the drip line shall be in place prior to beginning any grading or demolition work at the site.
2. All elevations with an asterisk (*) shall be field verified. If elevations vary significantly, notify the Engineer for further instructions.
3. Grades shown in paved areas represent finish elevation.
4. All construction shall be performed in accordance with state and local standard specifications for construction.
5. Permittees must not excavate infiltration systems to final grade, or within three (3) feet of final grade, until the contributing drainage area has been constructed and fully stabilized unless they provide rigorous erosion prevention and sediment controls (e.g., diversion berms) to keep sediment and runoff completely away from the infiltration area.

CITY NOTES

1. See sheet C300 for City of Lake Elmo Grading and Erosion Standard Plan notes.

BENCHMARK

ELEVATIONS BASED ON INFORMATION AS SHOWN ON THE TKDA WATERMAIN PLANS – SHEET C502 DATED 4/15/2014. TOP NUT HYDRANT 400 ' N. OF 10TH STREET. ELEVATION = 939.37

08-23-2024 PRELIMINARY PLAT SUBMITTAL

NORTH
0 20 40 80

New Lake Elmo Elementary School

Corner of 10th Streen North and Lake Elmo Avenue North
Lake Elmo MN 55042

INDEPENDENT SCHOOL DISTRICT #834
1875 Greeley St S, Stillwater, MN 55082

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldac.com | 651 227 7773

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

I hereby certify that this plan, specifications 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.

Greg A. Buchal, P.E.
Date: 08.23.2024 Lic. No.: 23793

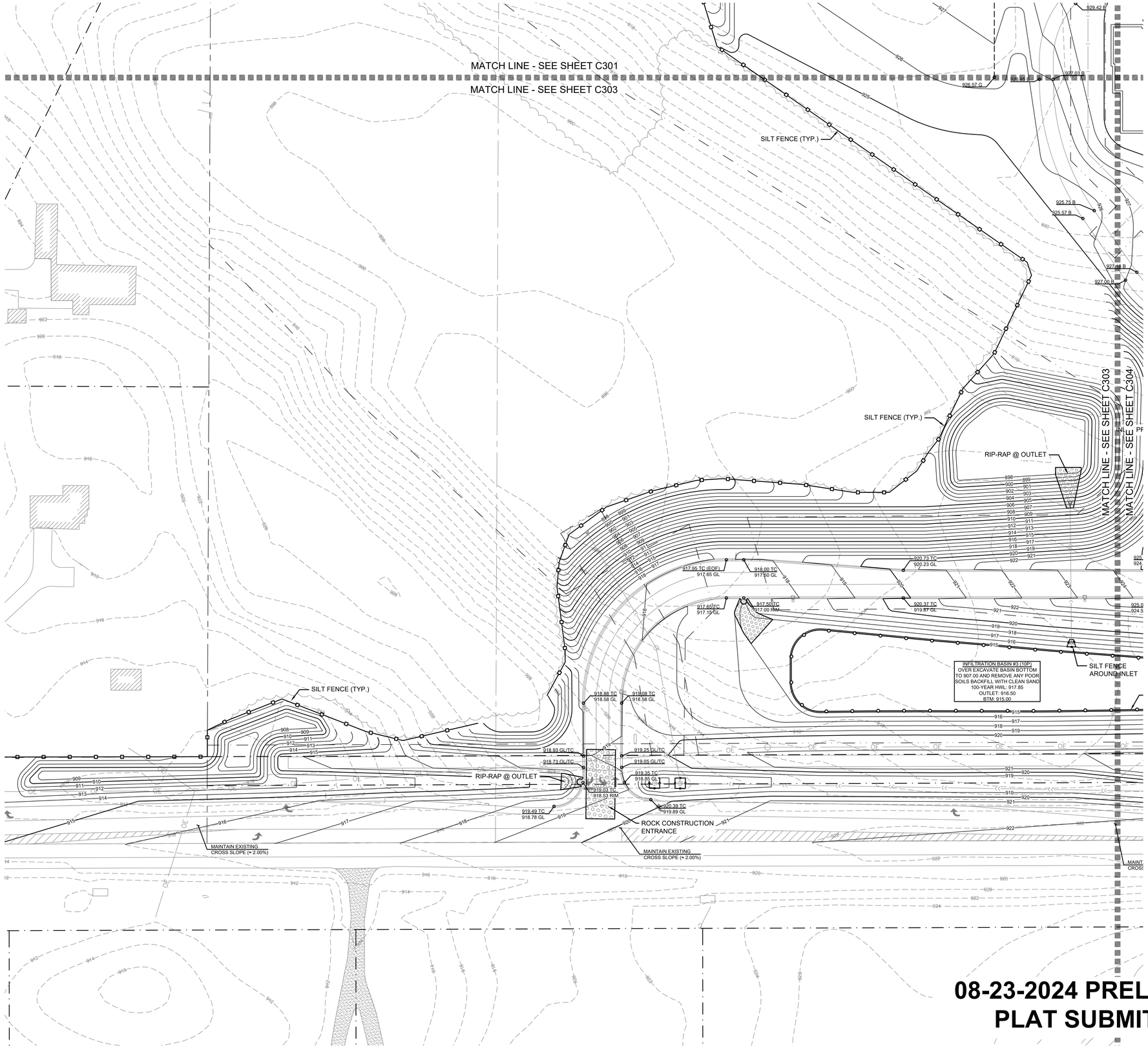
Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: MTH
Check:

North

NORTHEAST: GRADING AND EROSION CONTROL PLAN

C302



MN

A

SYMBOL LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS - MAJOR INTERVAL
- PROPOSED CONTOURS - MINOR INTERVAL
- GRADE BREAK LINE
- GRADE SLOPE (2.0%)
- PROPERTY LINE
- RIGHT OF WAY LINE
- EASEMENT LINE
- SEDIMENT LOG, SEE DETAIL X/CX00
- SEDIMENT LOG, SEE DETAIL X/CX00
- RIP-RAP / ROCK CONST. ENTRANCE SEE DETAIL X/CX00 OR X/CX00 OR X/CX00
- INLET PROTECTION, SEE DETAIL X/CX00

SPOT ABBREVIATIONS: (950.00 TC / 949.50 GL)

TC - TOP OF CURB	EOF - EMERGENCY OVERFLOW
GL - GUTTER LINE	OF - OVERFLOW
B - BITUMUNOUS	TW - TOP OF WALL
C - CONCRETE	BW - BOTTOM OF WALL (F/G)
G - GRADE	AG - AGLIME
	(*) - EXISTING TO BE VERIFIED

GRADING NOTES

1. Tree protection consisting of snow fence or safety fence installed at the drip line shall be in place prior to beginning any grading or demolition work at the site.
2. All elevations with an asterisk (*) shall be field verified. If elevations vary significantly, notify the Engineer for further instructions.
3. Grades shown in paved areas represent finish elevation.
4. All construction shall be performed in accordance with state and local standard specifications for construction.
5. Permittees must not excavate infiltration systems to final grade, or within three (3) feet of final grade, until the contributing drainage area has been constructed and fully stabilized unless they provide rigorous erosion prevention and sediment controls (e.g., diversion berms) to keep sediment and runoff completely away from the infiltration area.

CITY NOTES

1. See sheet C300 for City of Lake Elmo Grading and Erosion Standard Plan notes.

BENCHMARK

ELEVATIONS BASED ON INFORMATION AS SHOWN ON THE TKDA WATERMAIN PLANS - SHEET C502 DATED 4/15/2014. TOP NUT HYDRANT 400 ' N. OF 10TH STREET. ELEVATION = 939.37

08-23-2024 PRELIMINARY PLAT SUBMITTAL

NORTH
0 20 40 80

New Lake Elmo Elementary School

Corner of 10th Streen North and
Lake Elmo Avenue North
Lake Elmo MN 55042

INDEPENDENT SCHOOL DISTRICT #834
1875 Greeley St S, Stillwater, MN 55082

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldac.com | 651 227 7773

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

I hereby certify that this plan, specifications 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.

Greg A. Buchal, P.E.
Date: 08.23.2024 Lic. No.: 23793

Revisions		
Description	Date	Num

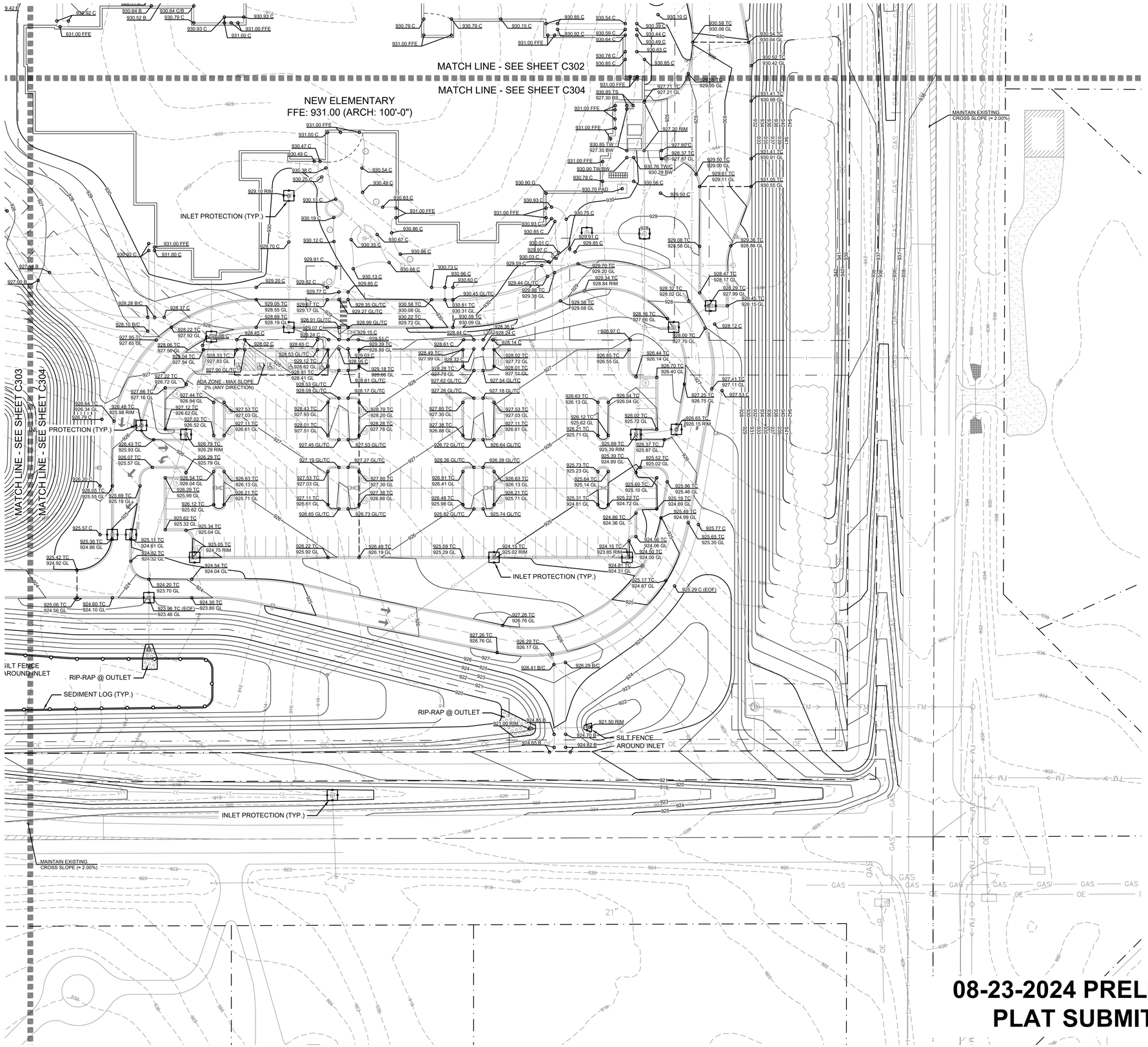
Comm: 12236128
Date: 08-23-2024
Drawn: MTH
Check:

North

SOUTHWEST: GRADING AND EROSION CONTROL PLAN

C303

P:\Projects\Projects - 2023\12236128 - New Stillwater Elementary School - Wold\C_Design\Drawing Files\12236128 - C300 Grading & Erosion Control Plan.dwg



SYMBOL LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS - MAJOR INTERVAL
- PROPOSED CONTOURS - MINOR INTERVAL
- GRADE BREAK LINE
- GRADE SLOPE
- PROPERTY LINE
- RIGHT OF WAY LINE
- EASEMENT LINE
- SEDIMENT LOG, SEE DETAIL X/CX00
- SEDIMENT LOG, SEE DETAIL X/CX00
- RIP-RAP / ROCK CONST. ENTRANCE SEE DETAIL X/CX00 OR X/CX00 OR X/CX00
- INLET PROTECTION, SEE DETAIL X/CX00

SPOT ABBREVIATIONS:

950.00 TC
949.50 GL

TC - TOP OF CURB	EOF - EMERGENCY OVERFLOW
GL - GUTTER LINE	OF - OVERFLOW
B - BITUMUNOUS	TW - TOP OF WALL
C - CONCRETE	BW - BOTTOM OF WALL (F/G)
G - GRADE	AG - AGLIME
	(*) - EXISTING TO BE VERIFIED

GRADING NOTES

1. Tree protection consisting of snow fence or safety fence installed at the drip line shall be in place prior to beginning any grading or demolition work at the site.
2. All elevations with an asterisk (*) shall be field verified. If elevations vary significantly, notify the Engineer for further instructions.
3. Grades shown in paved areas represent finish elevation.
4. All construction shall be performed in accordance with state and local standard specifications for construction.
5. Permittees must not excavate infiltration systems to final grade, or within three (3) feet of final grade, until the contributing drainage area has been constructed and fully stabilized unless they provide rigorous erosion prevention and sediment controls (e.g., diversion berms) to keep sediment and runoff completely away from the infiltration area.

CITY NOTES

1. See sheet C300 for City of Lake Elmo Grading and Erosion Standard Plan notes.

BENCHMARK

ELEVATIONS BASED ON INFORMATION AS SHOWN ON THE TKDA WATERMAIN PLANS - SHEET C502 DATED 4/15/2014. TOP NUT HYDRANT 400 ' N. OF 10TH STREET. ELEVATION = 939.37

08-23-2024 PRELIMINARY PLAT SUBMITTAL

NORTH
0 20 40 80

New Lake Elmo Elementary School

Corner of 10th Streen North and Lake Elmo Avenue North
Lake Elmo MN 55042

INDEPENDENT SCHOOL DISTRICT #834
1875 Greeley St S, Stillwater, MN 55082

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldac.com | 651 227 7773

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

I hereby certify that this plan, specifications 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.

Greg A. Buchal, P.E.
Date: 08.23.2024 Lic. No.: 23793

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: MTH
Check:

North

SOUTHEAST: GRADING AND EROSION CONTROL PLAN

C304

P:\Projects\Projects - 2023\12236128 - New Stillwater Elementary School - Wold\C. Design\Drawing Files\12236128 - C300 Grading & Erosion Control Plan.dwg

MN

CITY NOTES

1. See sheet C300 for City of Lake Elmo Grading and Erosion Standard Plan notes.

BENCHMARK

ELEVATIONS BASED ON INFORMATION AS SHOWN ON THE TKDA WATERMAIN PLANS – SHEET C502 DATED 4/15/2014. TOP NUT HYDRANT 400 ' N. OF 10TH STREET. ELEVATION = 939.37

GRADING NOTES

1. Tree protection consisting of snow fence or safety fence installed at the drip line shall be in place prior to beginning any grading or demolition work at the site.
2. All elevations with an asterisk (*) shall be field verified. If elevations vary significantly, notify the Engineer for further instructions.
3. Grades shown in paved areas represent finish elevation.
4. All construction shall be performed in accordance with state and local standard specifications for construction.
5. Permittees must not excavate infiltration systems to final grade, or within three (3) feet of final grade, until the contributing drainage area has been constructed and fully stabilized unless they provide rigorous erosion prevention and sediment controls (e.g., diversion berms) to keep sediment and runoff completely away from the infiltration area.

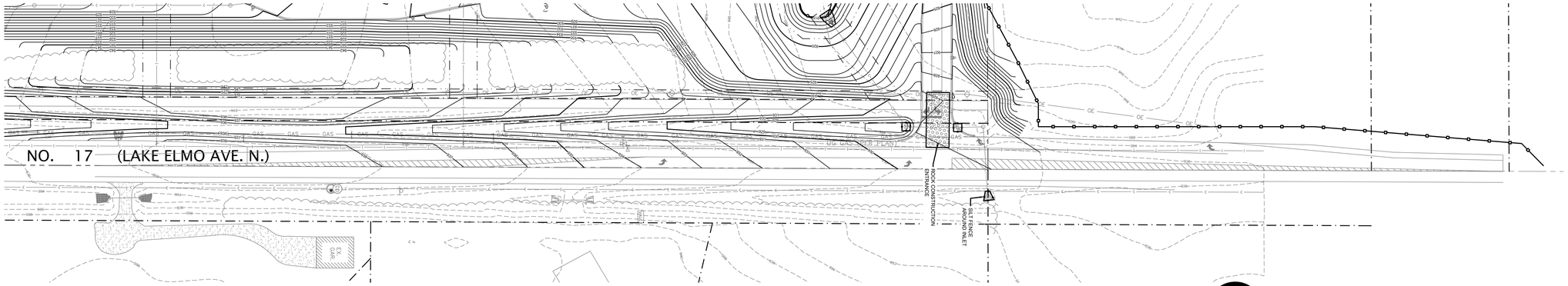
SYMBOL LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS - MAJOR INTERVAL
- PROPOSED CONTOURS - MINOR INTERVAL
- GRADE BREAK LINE
- GRADE SLOPE (2.0%)
- PROPERTY LINE
- RIGHT OF WAY LINE
- EASEMENT LINE
- SEDIMENT LOG, SEE DETAIL X/CX00
- SEDIMENT LOG, SEE DETAIL X/CX00
- RIP-RAP / ROCK CONST. ENTRANCE SEE DETAIL X/CX00 OR X/CX00 OR X/CX00
- INLET PROTECTION, SEE DETAIL X/CX00

950.00 TC
949.50 GL

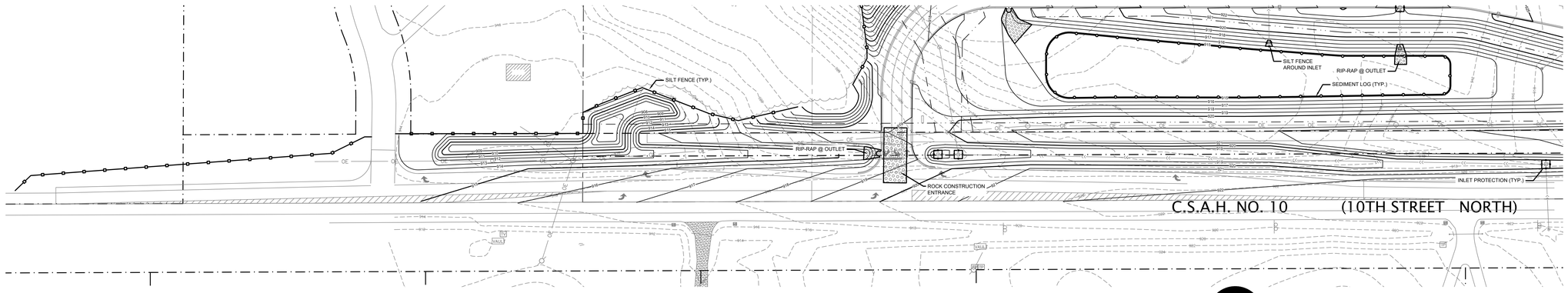
SPOT ABBREVIATIONS:

TC - TOP OF CURB
GL - GUTTER LINE
B - BITUMUNOUS
C - CONCRETE
G - GRADE
EOF - EMERGENCY OVERFLOW
OF - OVERFLOW
TW - TOP OF WALL
BW - BOTTOM OF WALL (F/G)
AG - AGLIME
(*) - EXISTING TO BE VERIFIED



C.S.A.H. NO.17 (LAKE ELMO AVENUE) SITE ACCESS

NORTH
0 30 60 120



C.S.A.H. NO.10 (10TH STREET NORTH) SITE ACCESS

NORTH
0 30 60 120

08-23-2024 PRELIMINARY PLAT SUBMITTAL

NORTH
0 20 40 80

A

P:\Projects\Projects - 2023\12236128 - New Stillwater Elementary School - Wold\C. Design\Drawing Files\12236128 - C305 Grading & Erosion Control Plan.dwg

New Lake Elmo Elementary School

Corner of 10th Streen North and Lake Elmo Avenue North
Lake Elmo MN 55042

INDEPENDENT SCHOOL DISTRICT #834
1875 Greeley St S, Stillwater, MN 55082

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldac.com | 651 227 7773

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

I hereby certify that this plan, specifications 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.

Greg A. Buchal, P.E.

Date: 08.23.2024 Lic. No.: 23793

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: MTH
Check:

North

SITE ACCESS GRADING PLAN

C305

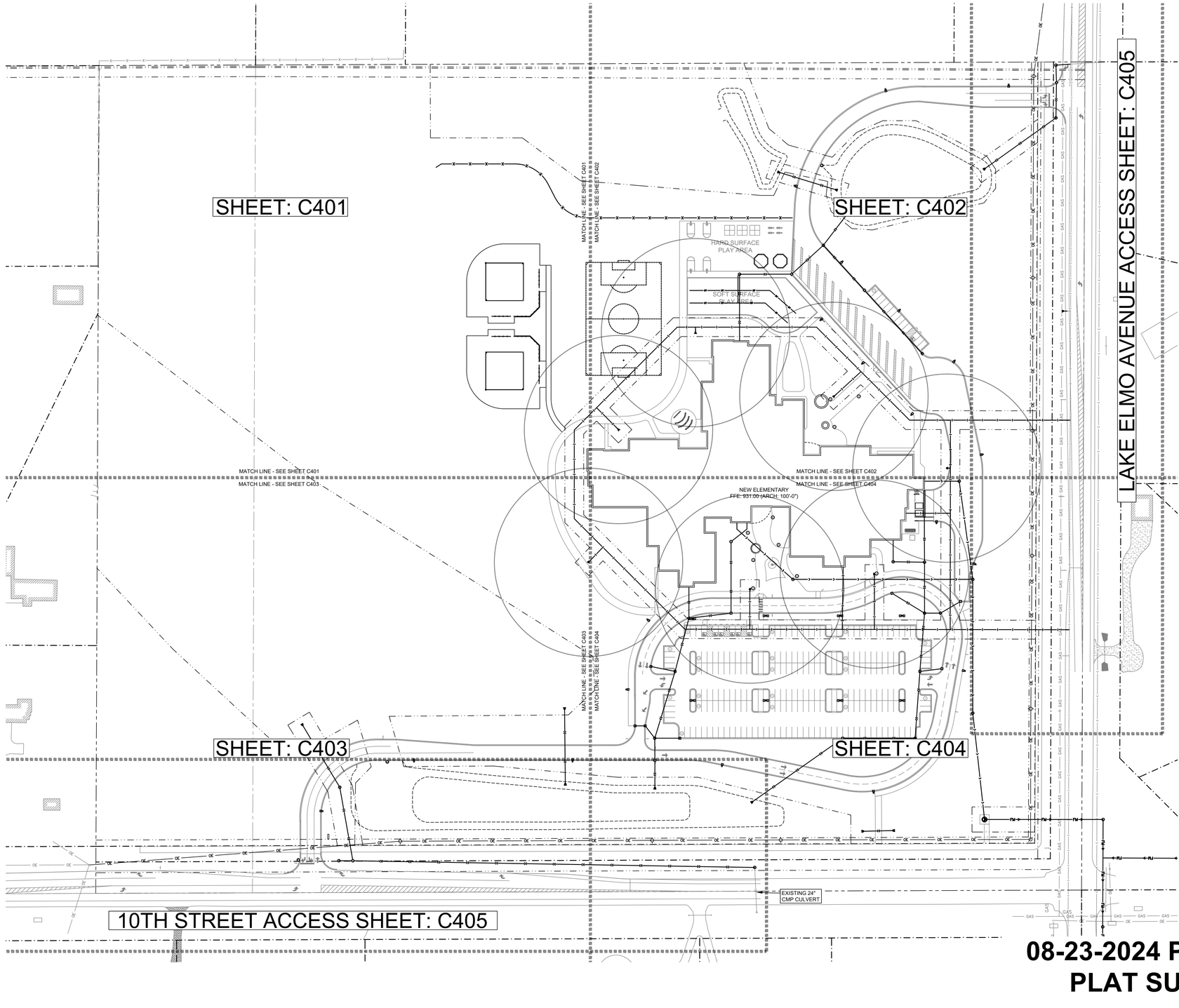
MN

BENCHMARK

ELEVATIONS BASED ON INFORMATION AS SHOWN ON THE TKDA WATERMAIN PLANS - SHEET C502 DATED 4/15/2014. TOP NUT HYDRANT 400 ' N. OF 10TH STREET. ELEVATION = 939.37

SYMBOL LEGEND

- STORM MANHOLE
- CATCH BASIN
- CURB INLET
- FLARED END
- SANITARY MANHOLE
- HYDRANT
- GATE VALVE & BOX
- WATER SHUTOFF
- LIGHT POLE
- CABLE UNDERGROUND LINE
- ELECTRIC OVERHEAD LINE
- ELECTRIC UNDERGROUND LINE
- FIBER OPTIC UNDERGROUND LINE
- NATURAL GAS UNDERGROUND LINE
- SANITARY SEWER PIPE
- STORM SEWER PIPE
- TELEPHONE UNDERGROUND LINE
- WATERMAIN PIPE
- DRAINTILE PIPE
- PROPERTY LINE
- EASEMENT LINE
- RIGHT-OF-WAY LINE
- SETBACK LINE



CITY OF LAKE ELMO'S STANDARD PLAN NOTES FOR SANITARY SEWER PLANS

1. ALL SANITARY SEWER AND ACCESORIES MUST BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LAKE ELMO STANDARD SPECIFICATIONS AND DETAILS.
2. ALL SANITARY SEWER PVC PIPE SHALL BE INSTALLED IN ACCORDING TO CITY OF STANDARD DRAWING 103 "GRANULAR MATERIAL BEDDING METHOD" (FOR PVC SANITARY SEWER PIPE).
3. UNLESS NOTED OTHERWISE, ALL SMOOTH WALLED SANITARY SEWER PVC PIPE AND FITTINGS SHALL BE SDR 35 WITH ELASTOMETRIC GASKETED JOINTS.
4. ALL SANITARY SEWER SERVICES SHALL BE 4-INCH PVC, SCH. 40.
5. SMOOTH WALLED PVC PIPE AND FITTINGS SHALL CONFORM WITH THE REQUIREMENTS OF ASTM D-3034 FOR THE SIZE, STANDARD DIMENSION RATION (SDR), AND STRENGTH REQUIREMENTS INDICATED ON THE PLANS, SPECIFICATIONS, AND SPECIAL PROVISIONS.
6. REINFORCED CONCRETE PIPE AND FITTINGS SHALL CONFORM WITH THE REQUIREMENTS OF MnDOT SPEC 3236 (REINFORCED CONCRETE PIPE) FOR THE TYPE, SIZE, AND STRENGTH CLASS SPECIFIED HEREIN.
7. JOINTS OF MANHOLE RISER SECTIONS SHALL BE TONGUE AND GROOVE WITH RUBBER "O" RING JOINTS PROVIDED ON ALL SANITARY SEWER MANHOLES.
8. SANITARY SEWER INLET AND OUTLET PIPES SHALL BE JOINED TO THE MANHOLE WITH A GASKETED, FLEXIBLE, WATERTIGHT CONNECTION TO ALL DIFFERENTIAL SETTLEMENT OF THE PIPE AND MANHOLE.
9. A 1'-0" TO 1'-4" MANHOLE SECTION SHALL BE INSTALLED UNDER THE CONE SECTION TO ALLOW FOR HEIGHT ADJUSTMENT WHENEVER POSSIBLE.
10. ALL SERVICE LINE STUBS MUST HAVE 2" x 2" HARDWOOD MARKER WITH METAL SPIKE RUNNING FROM THE END OF PIPE TO FINISHED GRADE ELEVATION.
11. UPON MARKING A CONNECTION TO AN EXISTING SANITARY SEWER STUB OR MANHOLE, DIRT AND DEBRIS SHALL BE PREVENTED FROM ENTERING THE EXISTING SEWER BY IMMEDIATELY INSTALLING WATERTIGHT PLUGS AS NEEDED IN THE EXISTING MANHOLE.
12. ALL MAINLINE SANITARY SEWER AND SERVICES SHALL HAVE TRACER WIRE PER CITY SPECIFICATIONS AND DETAILS.

CITY OF LAKE ELMO'S STANDARD PLAN NOTES FOR STORM SEWER PLANS

1. ALL STORM SEWER AND ACCESSORIES MUST BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LAKE ELMO STANDARD SPECIFICATIONS AND DETAILS.
2. REINFORCED CONCRETE PIPE AND FITTINGS SHALL CONFORM WITH THE REQUIREMENTS OF M n DOT SPEC 3236 (REINFORCED CONCRETE PIPE) FOR THE TYPE, SIZE, AND STRENGTH CLASS SPECIFIED HEREIN.
3. PRECAST CONCRETE MANHOLE AND CATCH BASIN SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C--477.
4. A 1'-0" TO 1'-4" MANHOLE SECTION SHALL BE INSTALLED UNDER THE CONE SECTION TO ALLOW FOR HEIGHT ADJUSTMENT WHENEVER POSSIBLE.
5. JOINTS OF MANHOLE RISER SECTIONS SHALL BE TONGUE AND GROOVE WITH RUBBER "O" RING JOINTS PROVIDED ON ALL STORM SEWER MANHOLES.
6. RIP-- RAP SHALL BE HAND -- PLACED OVER GEOTEXTILE FABRIC AND CONFORM TO MnDOT SPEC. 3601, CLASS III, OR AS SPECIFIED HEREIN.
7. THE GEOTEXTILE FABRIC USED UNDER RIP --RAP SHALL EXTEND 3-FT UNDER THE APRON.
8. FURNISH & INSTALL TRASH GUARDS ON ALL FLARED END SECTIONS.
9. ALL SILT SHALL BE CLEANED OUT FROM THE RIP - RAP AT THE END OF THE PROJECT.
10. STORM SEWER STRUCTURES WITHIN 1 0 FT OF WATERMAIN ARE TO HAVE WATER TIGHT CONNECTIONS PER MDH REQUIREMENTS.
11. ALL NEW STORM SEWER PIPE SHALL BE FLUSHED AND TELEVISED PRIOR TO SUBSTANTIAL COMPLETION - SEE SPECIFICATION SECTION 700 - CLOSEOUT REQUIREMENTS

CITY OF LAKE ELMO'S STANDARD PLAN NOTES FOR WATERMAIN PLANS

1. ALL WATERMAIN AND ACCESSORIES MUST BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LAKE ELMO STANDARD SPECIFICATIONS AND DETAILS.
2. MANIPULATION OF EXISTING VALVES SHALL BE PERFORMED ONLY BY CITY PERSONNEL.
3. WATERMAIN SHALL BE DUCTILE IRON PIPE, ENCASED IN POLYETHYLENE, CLASS--52.
4. ALL FITTINGS SHALL COMPLY WITH CEAM SPEC. 2611.2.A1. ALL FITTINGS SHALL BE DUCTILE IRON PIPE WITH POLYETHYLENE ENCASEMENT. ALL CONNECTIONS SHALL BE INSTALLED UTILIZING COR -- BLUE NUTS & BOLTS.
5. USE GATE VALVES FOR ALL APPLICATIONS UP THROUGH 12 INCHES.
6. GATE VALVES SHALL BE RESILIENT WEDGE AMERICAN FLOW CONTROL SERIES 2500 OR APPROVED EQUAL. GATE VALVES MUST COMPLY WITH CEAM SPEC 2611.2.C.2.
7. USE BUTTERFLY VALVES FOR ALL APPLICATIONS GREATER THAN 12 INCHES.
8. BUTTERFLY VALVES SHALL BE MUELLER LINESEAL III, OR APPROVED EQUAL. BUTTERFLY VALVES SHALL COMPLY WITH CEAM SPEC. 26 11.2.CA.
9. BOLTS AND NUTS ON ALL VALVES AND HYDRANTS SHALL BE STAIN LESS STEEL.
10. ALL HYDRANTS SHALL BE INSTALLED 5.0 FEET BACK OF CURB.
11. HYDRANTS SHALL BE WATEROUS "PACER," MODEL WB-67 OR APPROVED EQUAL, FITTED WITH FH 800 SERIES FLEX STAKE AND PAINTED RED.
12. HYDRANTS SHALL HAVE TWO OUTLET NOZZLES FOR 2-½ (1. D.) HOSE CONNECTIONS AND ONE 4" STORZ NOZZLE (MODEL WB--67) AND PENTAGON NUT END CAP.
13. THE CURB STOP SERVICE ASSEMBLY SHALL HAVE A MINIMUM 1 -- FT ADJUSTMENT RANGE AND SHALL EXTEND 6 INCHES ABOVE FINISHED GRADE FULLY EXTENDED.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING WATER TO HOMES AND BUSINESSES WHOSE WATER SUPPLY IS DISRUPTED DURING THE COURSE OF THE PROJECT.

08-23-2024 PRELIMINARY PLAT SUBMITTAL

NORTH

0 40 80 160

New Lake Elmo Elementary School

Corner of 10th Streen North and Lake Elmo Avenue North
Lake Elmo MN 55042

INDEPENDENT SCHOOL DISTRICT #834
1875 Greeley St S, Stillwater, MN 55082

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldac.com | 651 227 7773

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

I hereby certify that this plan, specifications 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.

Greg A. Buchal, P.E.

Date: 08.23.2024 Lic. No.: 23793

Revisions		
Description	Date	Num

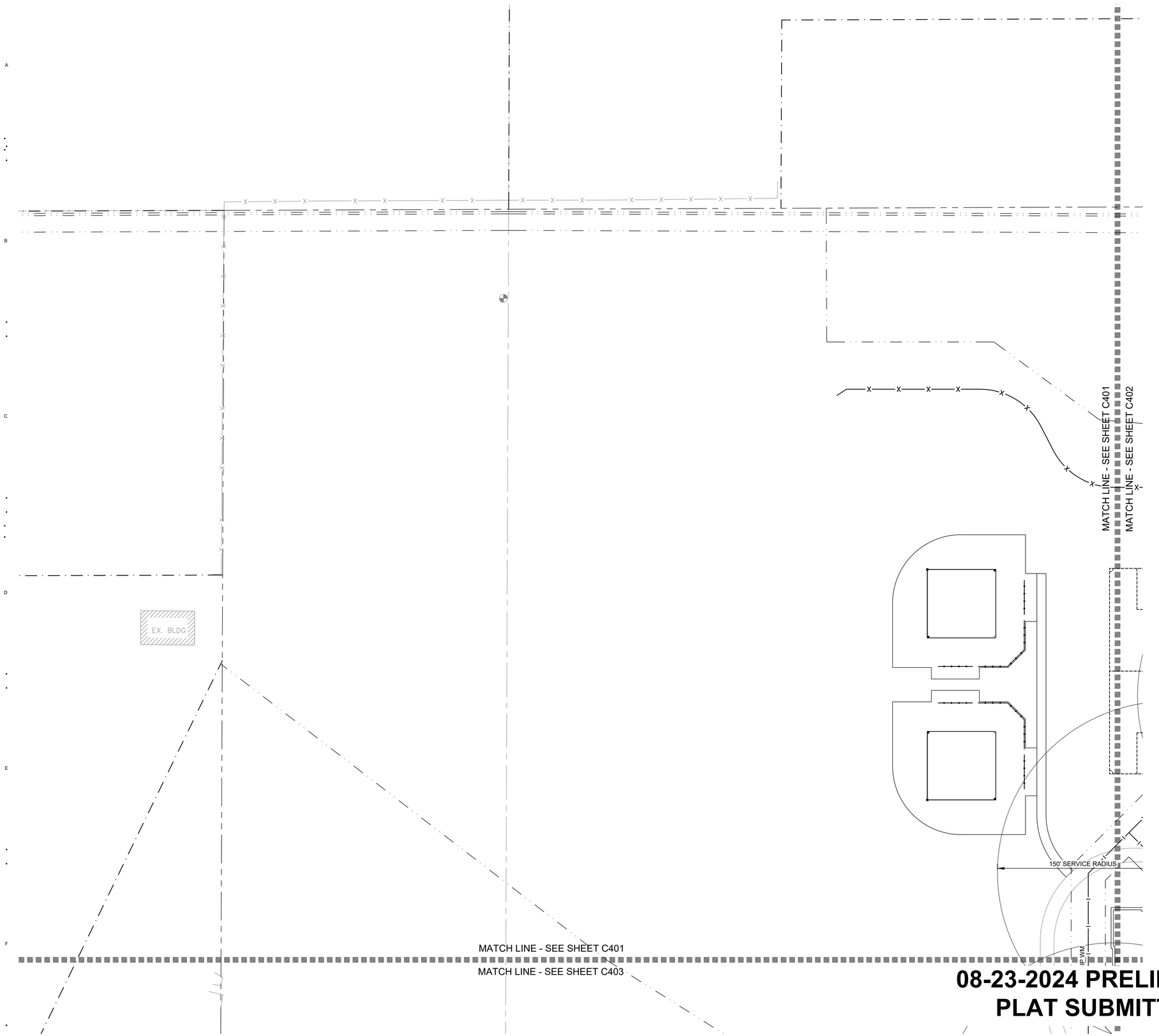
Comm: 12236128
Date: 08-23-2024
Drawn: MTH
Check:

North

OVERALL: UTILITY PLAN

C400

P:\Projects\Projects - 2023\12236128 - New Stillwater Elementary School - Wold\C. Design\Drawing Files\12236128 - C400 Utility Plan.dwg



SYMBOL LEGEND

- STORM MANHOLE
- CATCH BASIN
- CURB INLET
- FLARED END
- SANITARY MANHOLE
- HYDRANT
- GATE VALVE & BOX
- WATER SHUTOFF
- POWER POLE
- LIGHT POLE
- CTV — CABLE UNDERGROUND LINE
- OE — ELECTRIC OVERHEAD LINE
- UE — ELECTRIC UNDERGROUND LINE
- FO — FIBER OPTIC UNDERGROUND LINE
- GAS — NATURAL GAS UNDERGROUND LINE
- SANITARY SEWER PIPE
- STORM SEWER PIPE
- T — TELEPHONE UNDERGROUND LINE
- WATERMAIN PIPE
- DRAINTILE PIPE
- PROPERTY LINE
- EASEMENT LINE
- RIGHT-OF-WAY LINE

KEY NOTES

1. CATCH BASIN MANHOLE, SEE DETAIL 1/C503
   _A: CASTING & FRAME: NEENAH R-3067-C, TYLE L GRATE
   _B: CASTING & FRAME: NEENAH R-3501-TB, TYLE L GRATE
2. CATCH BASIN , SEE DETAIL X/CX00
   _A: CASTING & FRAME: NEENAH R-3067-C, TYLE L GRATE
   _B: CASTING & FRAME: NEENAH R-3501-TB, TYLE L GRATE
3. STORM MANHOLE, CASTING & FRAME: NEENAH R-1642, TYLE B LID, SEE DETAIL X/CX00
4. SANITARY MANHOLE, SEE DETAIL X/CX00
5. HYDRANT WITH GATE VALVE, SEE DETAIL X/CX00
6. GATE VALVE AND BOX, SEE DETAIL X/CX00
7. 4" PERFORATED PE PLAYGROUND DRAIN TILE WITH SOIL SEPARATION FABRIC, SEE DETAIL X/CX00
8. LIFT STATION, SEE DETAIL X/CX00
9. CLEANOUT, SEE DETAIL X/CX00
10. FLARED END SECTION, SEE DETAIL X/CX00
11. TRENCH DRAIN, SEE DETAIL X/CX00

CITY OF LAKE ELMO NOTES

1. See sheet C400 for City of Lake Elmo Standard Plan Notes for Sanitary Sewer Plans, Storm Sewer Plans, and Watermain Plans.

BENCHMARK

ELEVATIONS BASED ON INFORMATION AS SHOWN ON THE TKDA WATERMAIN PLANS - SHEET C502 DATED 4/15/2014. TOP NUT HYDRANT 400 ' N. OF 10TH STREET. ELEVATION = 939.37

08-23-2024 PRELIMINARY PLAT SUBMITTAL

NORTH
0 20 40 80

New Lake Elmo Elementary School

Corner of 10th Streen North and
Lake Elmo Avenue North
Lake Elmo MN 55042

INDEPENDENT SCHOOL DISTRICT #834
1875 Greeley St S, Stillwater, MN 55082

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldac.com | 651 227 7773

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

I hereby certify that this plan, specifications 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.

Greg A. Buchal, P.E.

Date: 08.23.2024 Lic. No.: 23793

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: MTH
Check:

North

NORTHWEST: UTILITY PLAN

C401

P:\Projects\Projects - 2023\12236128 - New Stillwater Elementary School - Wold\C. Design\Drawing Files\12236128 - C400 Utility Plan.dwg

MN

A

MATCH LINE - SEE SHEET C401

MATCH LINE - SEE SHEET C402

RELOCATE EXISTING POWER POLE
COORD. W/ UTILITY PROVIDER.
MAINTAIN 4' CLEAR ZONE FROM TRAIL
(TYPICAL.)

STMH-30
RIM: 928.70
INV: 923.87

23 LF 18" CMP
@ 1.00%

CONNECT ON EXISTING
18" CMP PIPE
INV: 924.10
EXTEND 23' TO NEW MH

CBMH-30
RIM: 928.18
INV: 923.45

28 LF 18" RCP
@ 1.51%

56 LF 18" RCP
@ 3.30%

CBMH-30
RIM: 926.10
INV: 921.60
SUMP: 917.60

141 LF 18" RCP
@ 3.61%

FES-10
INV: 916.50

RAIN GUARDIAN
RIM: 919.12
INV: 918.12

FES-10
INV: 915.00

99 LF 18" RCP
@ 1.51%

FES-10
INV: 916.50

FES-10
INV: 916.50

138 LF 24" HDPE
@ 3.70%

CBMH-30
RIM: 923.84
INV: 918.87
SUMP: 914.87

68 LF 15" HDPE
@ 2.20%

CBMH-30
RIM: 924.87
INV: 920.37

97 LF 15" HDPE
@ 2.00%

HARD SURFACE
PLAY AREA

STMH-28
RIM: 925.98
INV: 921.20

83 LF 15" HDPE
@ 1.00%

PLAYGROUND DT

SOFT SURFACE
PLAY AREA

106 LF 12" PVC
(SCH.40) @ 2.17%

CBMH-29
RIM: 925.31
INV: 920.81

137 LF 12" HDPE
@ 1.50%

8" DIP WM

6" HYDRANT
WITH GV

12" RD, CORD. W/
MECH
INV: 923.50

CBMH-32
RIM: 927.35
INV: 922.85

INSTALL NEW
HYDRANT
EXTEND 6" DIP WM

6" HYDRANT
WITH GV

8" GATEVALVE

8" DIP WM

WET-TAP INTO 16" HDPE
WM, COORDINATE
CONNECTION WITH THE
CITY OF LAKE ELMO

RADIUS

6" HYDRANT
WITH GV

6" HYDRANT
WITH GV

150' SERVICE RADIUS

55 LF 6" PVC
@ 2.00%

SAN MH-2
RIM: 929.38
INV: 921.90

6" SAN. CORD. W/
MECH
INV: 923.00

TRENCH DRAIN
INV (N): 926.95
INV (S): 926.70
INV (OUT): 925.00

8" WATER SERVICE
CORD. W/ MECH.

8" GATEVALVE
(TYP. OF 3)

MATCH LINE - SEE SHEET C402

MATCH LINE - SEE SHEET C404

NEW ELEMENTARY
FFE: 931.00 (ARCH: 100'-0")

6" SAN. CORD. W/
MECH

10" RD, CORD. W/
MECH

OE
GAS
UG GAS (PER PLAN)
WATERMAIN
16" HDPE FORCEMAIN (PER PLAN)
VAULT
SAN MH (AIR RELEASE)

SYMBOL LEGEND

STORM MANHOLE	HYDRANT
CATCH BASIN	GATE VALVE & BOX
CURB INLET	WATER SHUTOFF
FLARED END	POWER POLE
SANITARY MANHOLE	LIGHT POLE
CTV — CABLE UNDERGROUND LINE	
OE — ELECTRIC OVERHEAD LINE	
UE — ELECTRIC UNDERGROUND LINE	
FO — FIBER OPTIC UNDERGROUND LINE	
GAS — NATURAL GAS UNDERGROUND LINE	
SANITARY SEWER PIPE	
STORM SEWER PIPE	
T — TELEPHONE UNDERGROUND LINE	
WATERMAIN PIPE	
DRAINTILE PIPE	
PROPERTY LINE	
EASEMENT LINE	
RIGHT-OF-WAY LINE	

KEY NOTES

1. CATCH BASIN MANHOLE, SEE DETAIL 1/C503
   _A: CASTING & FRAME: NEENAH R-3067-C, TYLE L GRATE
   _B: CASTING & FRAME: NEENAH R-3501-TB, TYLE L GRATE
2. CATCH BASIN , SEE DETAIL X/CX00
   _A: CASTING & FRAME: NEENAH R-3067-C, TYLE L GRATE
   _B: CASTING & FRAME: NEENAH R-3501-TB, TYLE L GRATE
3. STORM MANHOLE, CASTING & FRAME: NEENAH R-1642, TYLE B LID, SEE DETAIL X/CX00
4. SANITARY MANHOLE, SEE DETAIL X/CX00
5. HYDRANT WITH GATE VALVE, SEE DETAIL X/CX00
6. GATE VALVE AND BOX, SEE DETAIL X/CX00
7. 4" PERFORATED PE PLAYGROUND DRAIN TILE WITH SOIL SEPARATION FABRIC, SEE DETAIL X/CX00
8. LIFT STATION, SEE DETAIL X/CX00
9. CLEANOUT, SEE DETAIL X/CX00
10. FLARED END SECTION, SEE DETAIL X/CX00
11. TRENCH DRAIN, SEE DETAIL X/CX00

CITY OF LAKE ELMO NOTES

1. See sheet C400 for City of Lake Elmo Standard Plan Notes for Sanitary Sewer Plans, Storm Sewer Plans, and Watermain Plans.

BENCHMARK

ELEVATIONS BASED ON INFORMATION AS SHOWN ON THE TKDA WATERMAIN PLANS - SHEET C502 DATED 4/15/2014. TOP NUT HYDRANT 400 ' N. OF 10TH STREET. ELEVATION = 939.37

08-23-2024 PRELIMINARY PLAT SUBMITTAL

NORTH

0 20 40 80

New Lake Elmo Elementary School

Corner of 10th Streen North and
Lake Elmo Avenue North
Lake Elmo MN 55042

INDEPENDENT SCHOOL DISTRICT #834
1875 Greeley St S, Stillwater, MN 55082

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldac.com | 651 227 7773

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

I hereby certify that this plan, specifications 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.

Greg A. Buchal, P.E.

Date: 08.23.2024 Lic. No.: 23793

Revisions		
Description	Date	Num

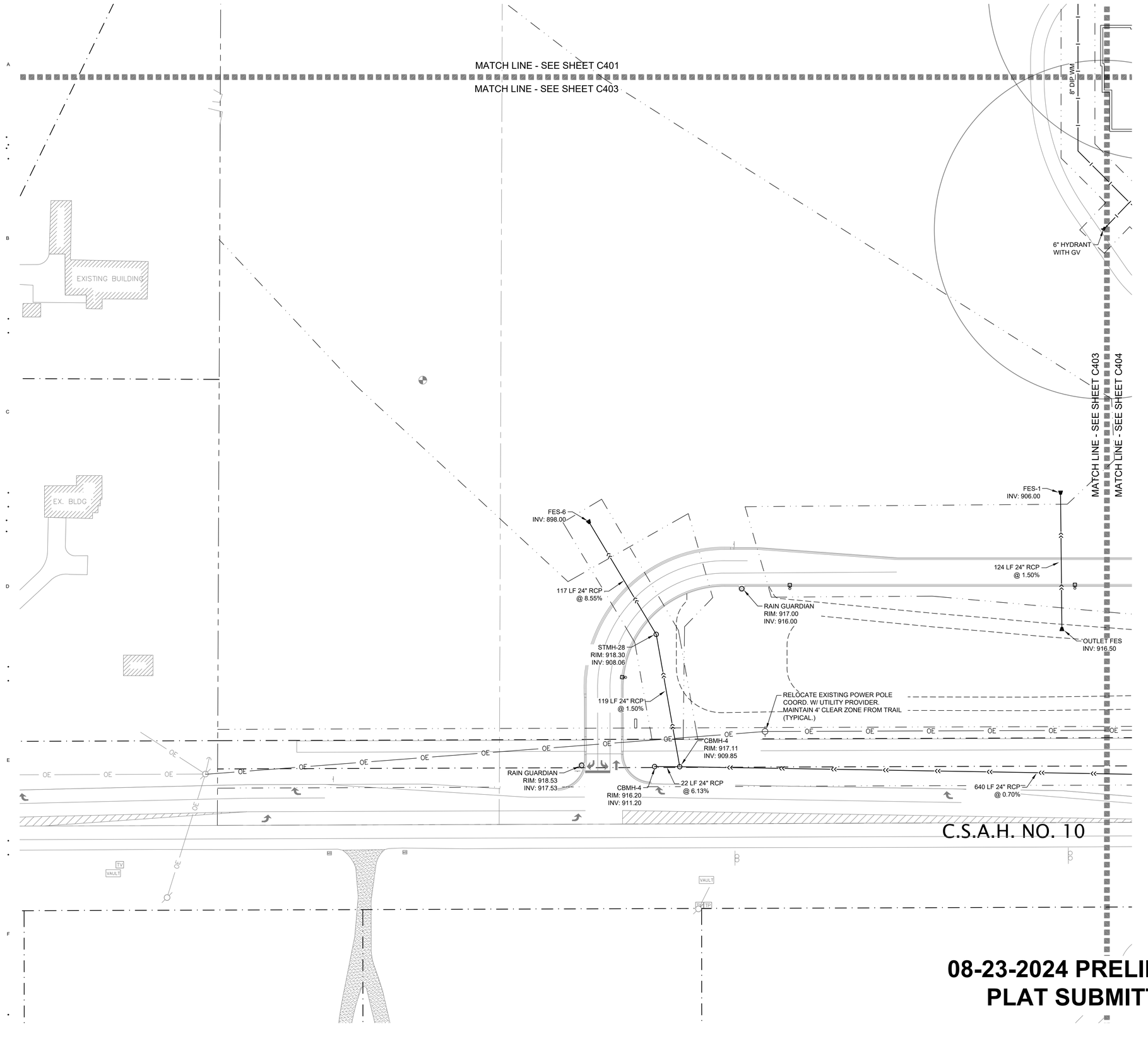
Comm: 12236128
Date: 08-23-2024
Drawn: MTH
Check:

North

NORTHEAST: UTILITY PLAN

C402

P:\Projects\Projects - 2023\12236128 - New Stillwater Elementary School - Wold\C. Design\Drawing Files\12236128 - C400_Utility Plan.dwg



SYMBOL LEGEND

STORM MANHOLE	HYDRANT
CATCH BASIN	GATE VALVE & BOX
CURB INLET	WATER SHUTOFF
FLARED END	POWER POLE
SANITARY MANHOLE	LIGHT POLE
CTV	CABLE UNDERGROUND LINE
OE	ELECTRIC OVERHEAD LINE
UE	ELECTRIC UNDERGROUND LINE
FO	FIBER OPTIC UNDERGROUND LINE
GAS GAS	NATURAL GAS UNDERGROUND LINE
	SANITARY SEWER PIPE
	STORM SEWER PIPE
T T	TELEPHONE UNDERGROUND LINE
	WATERMAIN PIPE
	DRAINTILE PIPE
	PROPERTY LINE
	EASEMENT LINE
	RIGHT-OF-WAY LINE

KEY NOTES

1. CATCH BASIN MANHOLE, SEE DETAIL 1/C503
   _A: CASTING & FRAME: NEENAH R-3067-C, TYLE L GRATE
   _B: CASTING & FRAME: NEENAH R-3501-TB, TYLE L GRATE
2. CATCH BASIN , SEE DETAIL X/CX00
   _A: CASTING & FRAME: NEENAH R-3067-C, TYLE L GRATE
   _B: CASTING & FRAME: NEENAH R-3501-TB, TYLE L GRATE
3. STORM MANHOLE, CASTING & FRAME: NEENAH R-1642, TYLE B LID, SEE DETAIL X/CX00
4. SANITARY MANHOLE, SEE DETAIL X/CX00
5. HYDRANT WITH GATE VALVE, SEE DETAIL X/CX00
6. GATE VALVE AND BOX, SEE DETAIL X/CX00
7. 4" PERFORATED PE PLAYGROUND DRAIN TILE WITH SOIL SEPARATION FABRIC, SEE DETAIL X/CX00
8. LIFT STATION, SEE DETAIL X/CX00
9. CLEANOUT, SEE DETAIL X/CX00
10. FLARED END SECTION, SEE DETAIL X/CX00
11. TRENCH DRAIN, SEE DETAIL X/CX00

CITY OF LAKE ELMO NOTES

1. See sheet C400 for City of Lake Elmo Standard Plan Notes for Sanitary Sewer Plans, Storm Sewer Plans, and Watermain Plans.

BENCHMARK

ELEVATIONS BASED ON INFORMATION AS SHOWN ON THE TKDA WATERMAIN PLANS - SHEET C502 DATED 4/15/2014. TOP NUT HYDRANT 400 ' N. OF 10TH STREET. ELEVATION = 939.37

08-23-2024 PRELIMINARY PLAT SUBMITTAL

NORTH
0 20 40 80

New Lake Elmo Elementary School

Corner of 10th Streen North and
Lake Elmo Avenue North
Lake Elmo MN 55042

INDEPENDENT SCHOOL DISTRICT #834
1875 Greeley St S, Stillwater, MN 55082

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldac.com | 651 227 7773

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

I hereby certify that this plan, specifications 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.

Greg A. Buchal, P.E.

Date: 08.23.2024 Lic. No.: 23793

Revisions		
Description	Date	Num

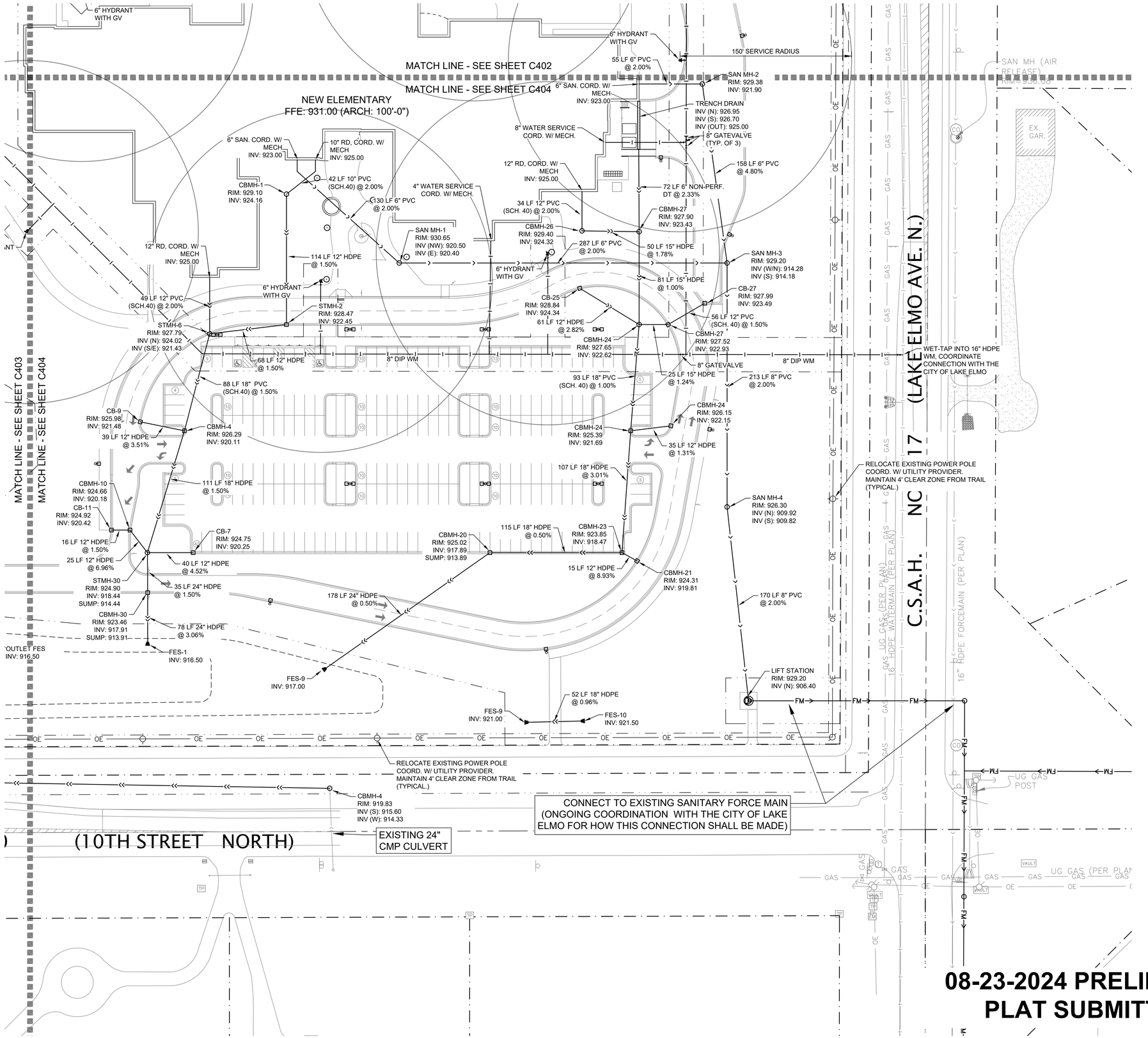
Comm: 12236128
Date: 08-23-2024
Drawn: MTH
Check:

North

SOUTHWEST: UTILITY PLAN

C403

P:\Projects\Projects - 2023\12236128 - New Stillwater Elementary School - Wold\C_Design\Drawing Files\12236128 - C400 Utility Plan.dwg



SYMBOL LEGEND

STORM MANHOLE	HYDRANT
CATCH BASIN	GATE VALVE & BOX
CURB INLET	WATER SHUTOFF
FLARED END	POWER POLE
SANITARY MANHOLE	LIGHT POLE
CTV	CABLE UNDERGROUND LINE
OE	ELECTRIC OVERHEAD LINE
UE	ELECTRIC UNDERGROUND LINE
FO	FIBER OPTIC UNDERGROUND LINE
GAS	NATURAL GAS UNDERGROUND LINE
	SANITARY SEWER PIPE
	STORM SEWER PIPE
T	TELEPHONE UNDERGROUND LINE
	WATERMAIN PIPE
DT	DRAINTILE PIPE
	PROPERTY LINE
	EASEMENT LINE
	RIGHT-OF-WAY LINE

KEY NOTES

1. CATCH BASIN MANHOLE, SEE DETAIL 1/C503
   _A: CASTING & FRAME: NEENAH R-3067-C, TYLE L GRATE
   _B: CASTING & FRAME: NEENAH R-3501-TB, TYLE L GRATE
2. CATCH BASIN , SEE DETAIL X/CX00
   _A: CASTING & FRAME: NEENAH R-3067-C, TYLE L GRATE
   _B: CASTING & FRAME: NEENAH R-3501-TB, TYLE L GRATE
3. STORM MANHOLE, CASTING & FRAME: NEENAH R-1642, TYLE B LID, SEE DETAIL X/CX00
4. SANITARY MANHOLE, SEE DETAIL X/CX00
5. HYDRANT WITH GATE VALVE, SEE DETAIL X/CX00
6. GATE VALVE AND BOX, SEE DETAIL X/CX00
7. 4" PERFORATED PE PLAYGROUND DRAIN TILE WITH SOIL SEPARATION FABRIC, SEE DETAIL X/CX00
8. LIFT STATION, SEE DETAIL X/CX00
9. CLEANOUT, SEE DETAIL X/CX00
10. FLARED END SECTION, SEE DETAIL X/CX00
11. TRENCH DRAIN, SEE DETAIL X/CX00

CITY OF LAKE ELMO NOTES

1. See sheet C400 for City of Lake Elmo Standard Plan Notes for Sanitary Sewer Plans, Storm Sewer Plans, and Watermain Plans.

BENCHMARK

ELEVATIONS BASED ON INFORMATION AS SHOWN ON THE TKDA WATERMAIN PLANS - SHEET C502 DATED 4/15/2014. TOP NUT HYDRANT 400 ' N. OF 10TH STREET. ELEVATION = 939.37

08-23-2024 PRELIMINARY PLAT SUBMITTAL

NORTH
0 20 40 80

New Lake Elmo Elementary School

Corner of 10th Streen North and
Lake Elmo Avenue North
Lake Elmo MN 55042

INDEPENDENT SCHOOL DISTRICT #834
1875 Greeley St S, Stillwater, MN 55082

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldac.com | 651 227 7773

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

I hereby certify that this plan, specifications 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.

Greg A. Buchal, P.E.

Date: 08.23.2024 Lic. No.: 23793

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: MTH
Check:

North

SOUTHEAST: UTILITY PLAN

C404

P:\Projects\Projects - 2023\12236128 - New Stillwater Elementary School - Wold\C. Design\Drawing Files\12236128 - C400 Utility Plan.dwg

MN

CITY OF LAKE ELMO NOTES

1. See sheet C400 for City of Lake Elmo Standard Plan Notes for Sanitary Sewer Plans, Storm Sewer Plans, and Watermain Plans.

BENCHMARK

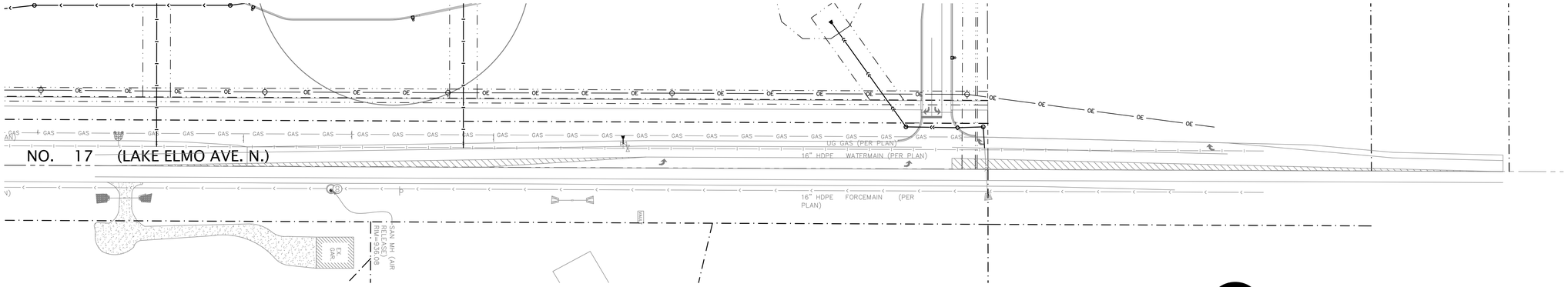
ELEVATIONS BASED ON INFORMATION AS SHOWN ON THE TKDA WATERMAIN PLANS - SHEET C502 DATED 4/15/2014. TOP NUT HYDRANT 400 ' N. OF 10TH STREET. ELEVATION = 939.37

KEY NOTES

1. CATCH BASIN MANHOLE, SEE DETAIL 1/C503
   _A: CASTING & FRAME: NEENAH R-3067-C, TYLE L GRATE
   _B: CASTING & FRAME: NEENAH R-3501-TB, TYLE L GRATE
2. CATCH BASIN , SEE DETAIL X/CX00
   _A: CASTING & FRAME: NEENAH R-3067-C, TYLE L GRATE
   _B: CASTING & FRAME: NEENAH R-3501-TB, TYLE L GRATE
3. STORM MANHOLE, CASTING & FRAME: NEENAH R-1642, TYLE B LID, SEE DETAIL X/CX00
4. SANITARY MANHOLE, SEE DETAIL X/CX00
5. HYDRANT WITH GATE VALVE, SEE DETAIL X/CX00
6. GATE VALVE AND BOX, SEE DETAIL X/CX00
7. 4" PERFORATED PE PLAYGROUND DRAIN TILE WITH SOIL SEPARATION FABRIC, SEE DETAIL X/CX00
8. LIFT STATION, SEE DETAIL X/CX00
9. CLEANOUT, SEE DETAIL X/CX00
10. FLARED END SECTION, SEE DETAIL X/CX00
11. TRENCH DRAIN, SEE DETAIL X/CX00

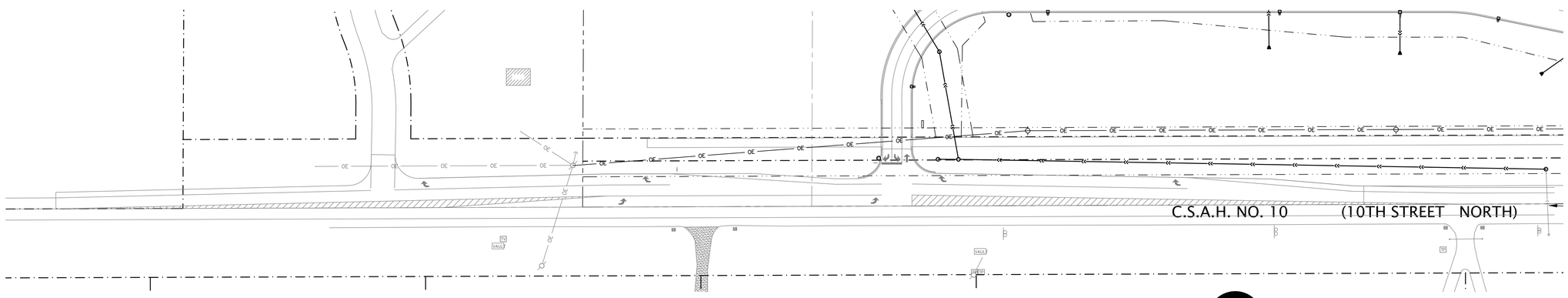
SYMBOL LEGEND

- STORM MANHOLE
- CATCH BASIN
- CURB INLET
- FLARED END
- SANITARY MANHOLE
- HYDRANT
- GATE VALVE & BOX
- WATER SHUTOFF
- POWER POLE
- LIGHT POLE
- CABLE UNDERGROUND LINE
- ELECTRIC OVERHEAD LINE
- ELECTRIC UNDERGROUND LINE
- FIBER OPTIC UNDERGROUND LINE
- NATURAL GAS UNDERGROUND LINE
- SANITARY SEWER PIPE
- STORM SEWER PIPE
- TELEPHONE UNDERGROUND LINE
- WATERMAIN PIPE
- DRAINTILE PIPE
- PROPERTY LINE
- EASEMENT LINE
- RIGHT-OF-WAY LINE



C.S.A.H. NO.17 (LAKE ELMO AVENUE) SITE ACCESS UTILITY PLAN

NORTH
0 30 60 120



C.S.A.H. NO.10 (10TH STREET NORTH) SITE ACCESS UTILITY PLAN

NORTH
0 30 60 120

08-23-2024 PRELIMINARY PLAT SUBMITTAL

NORTH
0 20 40 80

A

P:\Projects\Projects - 2023\12236128 - New Stillwater Elementary School - Wold\C. Design\Drawing Files\12236128 - C400 Utility Plan.dwg

New Lake Elmo Elementary School

Corner of 10th Streen North and Lake Elmo Avenue North
Lake Elmo MN 55042

INDEPENDENT SCHOOL DISTRICT #834
1875 Greeley St S, Stillwater, MN 55082

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldac.com | 651 227 7773

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

I hereby certify that this plan, specifications 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.

Greg A. Buchal, P.E.

Date: 08.23.2024 Lic. No.: 23793

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: MTH
Check:

North

SITE ACCESS UTILITY PLAN

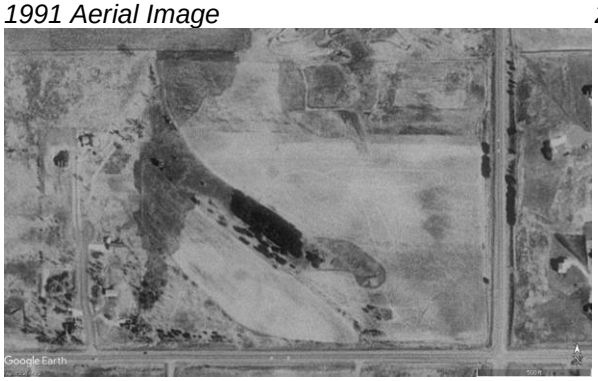
C405

RE: Lake Elmo Elementary School Tree Mitigation Exception Request

The new Lake Elmo Elementary School project is requesting an exception to the City's tree preservation and replacement standards. Standards for tree preservation exceptions by City Council are dictated by Lake Elmo City Code Section 105.12.470.f.1

The proposed project site for the new Lake Elmo Elementary School is an existing agricultural field with a significant amount of coniferous tree rows planted by the previous landowner. These trees are primarily 8"-12" caliper red pines, scotch pines, blue spruce, and norway spruce. Per the historic aerial imagery below, these gridded tree rows were planted between 1991 and 2003.

1991 Aerial Image



2003 Aerial Image

2014 Aerial Image

2024 Aerial Image

To develop this site for the new elementary school, a significant amount of the previous landowner planted trees will need to be removed for the elementary building, parking, driveways, utilities, and stormwater management. Diligent efforts were made by the Architect and Civil Engineer to limit site disturbance to the East side of the property while maintaining the necessary functions and features of the elementary school.

Because a significant portion of the tree removals would be previous landowner planted trees, the project is requesting that these landowner planted trees be exempt from a tree mitigation penalty.

The following sections of Lake Elmo City Code pertain to this request. Beneath each section of city code is a description about how this section applies to the Lake Elmo Elementary School site.

105.12.470 Tree Preservation Section c.1.b.5
A Tree Preservation Plan is not required for the following activities: Tree removal related to public improvement projects and maintenance or repairs to existing streets, roadways, sewers, parks, storm water facilities and utility infrastructure.

The proposed Elementary School is a public improvement project. The ballfields and playground will be open to the public.

105.12.470 Tree Preservation Section c.3.c
Trees that were planted as part of a commercial business such as a tree farm or nursery do not need to be inventoried on an individual basis. A general description of the trees and an outer boundary of the planted area must be provided. The burden of proof shall be on the applicant to provide evidence to support the finding that the trees were planted as part of a commercial business.

Per the attached aerial imagery from 1991-2024, a significant portion of the coniferous trees on this agricultural site were planted by the previous landowner between 1991 and 2003. The gridded layout mimics a standard tree farm planting plan. The attached tree inventory chart documents these landowner planted trees as primarily 8"-12" caliper coniferous trees including red pine, scotch pine, blue spruce, and norway spruce.

105.12.470 Tree Preservation Section c.5.c-d
The following types of trees do not need to be included as part of the tally of tree removals:
c. Trees that were planted as part of a commercial business, such as a tree farm or nursery (subject to verification by the City); or
d. Trees that were planted by the current property owner. In making such a determination, the City shall consider consistency of the age of the trees, any patterns in the location of trees, historical aerial photography and evidence of intentional planting such as invoices, formal planting plans or cost sharing agreements.

Per the attached aerial imagery from 1991-2024, a significant portion of the coniferous trees on this agricultural site were planted by the previous landowner between 1991 and 2003. The gridded layout mimics a standard tree farm planting plan. The attached tree inventory chart documents these landowner planted trees as primarily 8"-12" caliper coniferous trees including red pine, scotch pine, blue spruce, and norway spruce.

105.12.470 Tree Preservation Section f.1: Exception Standards

Not withstanding the City's desire to accomplish tree preservation and protection goals, there may be instances where these goals are in conflict with other City objectives. These conflicts will most likely occur on small, heavily-wooded parcels. The City recognizes there may be instances where it is not practical or reasonable to have an applicant plant the total required replacement trees on site.

Applicants may ask the City to approve exceptions to the City's tree preservation and replacement standards. The City Council may grant exceptions if all of the following conditions exist:

a. *It is not feasible to combine the subject parcel with adjacent parcels that could use the parcel as required green space;*
b. *Strict adherence to the City's tree preservation and replacement standards would prevent reasonable development that is consistent with the Comprehensive Plan and desirable to the City on the parcel; and*
c. *The exception requested is the minimum needed to accomplish the desired development or redevelopment.*

a. **Within the site's limits, the project will support and maintain new trees around the development area to meet the Lake Elmo landscape and screening requirements. However, it is not feasible for the Elementary School to plant and continue to maintain additional mitigation trees on property or an adjacent parcel. Rather than funding on-site amenities for elementary students, taxpayer dollars would be going towards a substantial tree mitigation penalty due to the loss of the previous landowner's planted tree rows.**
b. **This project is a reasonable development that is consistent with the goals of the Comprehensive Plan. A new Elementary School is an essential public service for the City of Lake Elmo, especially in a geographically ideal location near the Middle School.**
c. **The Architect and Civil Engineer have worked diligently to minimize site disturbance while maintaining all of the necessary functions and features for the Elementary School including parking, driveways, utilities, and stormwater management.**

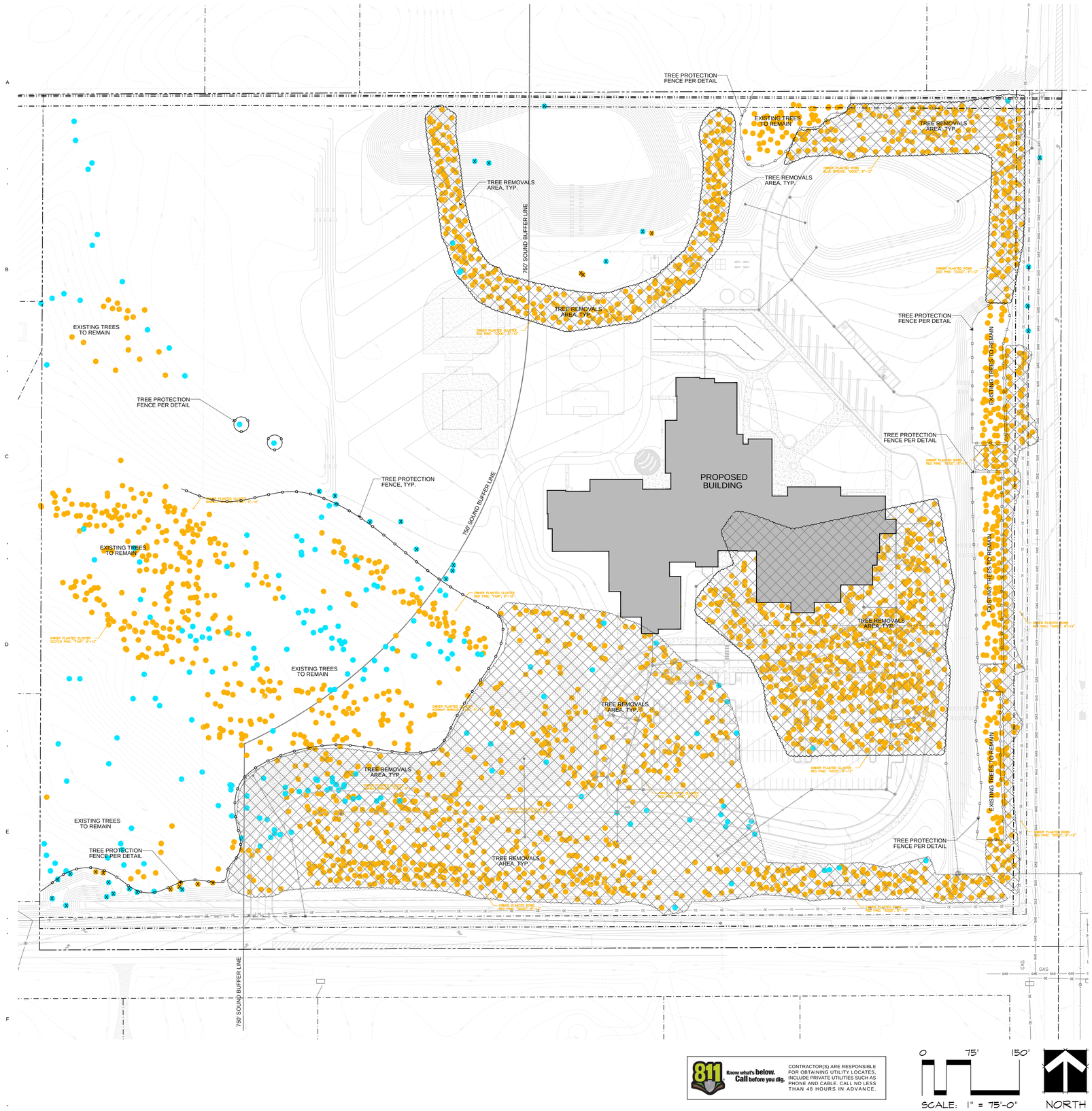
105.12.470 Tree Preservation Section f.2: Reduced Mitigation for Exceptions

If the City Council approves an exception to the tree preservation standards, relief from the requirements of the standards may take the form of reduced mitigation requirements, greater allowable tree removal, higher thresholds for determining significant trees, or any combination of the above. The City Council will determine which form of relief best balances the objectives of the City and tree preservation.

The proposed Lake Elmo Elementary School project requests that the City Council exempt the landowner planted trees from a mitigation penalty. The project intends to meet the Lake Elmo standard landscape requirements and mitigation penalty for the removal of naturally occurring site trees.

The proposed Elementary School is an essential public service and provides public improvements including ballfields and a playground that will be open to the community. With this tree mitigation exemption, the school will be able use more of the budget for the elementary students' building, site amenities, and education.

MN



811 Know what's below. Call before you dig.

CONTRACTOR(S) ARE RESPONSIBLE FOR OBTAINING UTILITY LOCATES, INCLUDE PRIVATE UTILITIES SUCH AS PHONE AND CABLE. CALL NO LESS THAN 48 HOURS IN ADVANCE.

0 75' 150'

SCALE: 1" = 75'-0"

NORTH

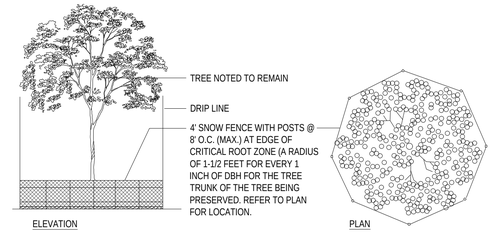
Symbols Legend:

TREE REMOVAL AREA

TREE PROTECTION FENCE

LANDOWNER PLANTED TREE

NATURALLY OCCURRING TREE



NOTE: TREE PROTECTION SHALL BE PROVIDED BY CONTRACTOR AS REQUIRED TO AIDE IN SURVIVABILITY OF EXISTING TREES TO REMAIN. DO NOT STORE MATERIALS OR DRIVE EQUIPMENT WITHIN THE TREE DRIP LINE AS DESIGNATED ABOVE. MAINTAIN THE FENCE INTEGRITY AT ALL TIMES THROUGHOUT CONSTRUCTION.

TREE PROTECTION FENCE SHALL BE IN PLACE PRIOR TO THE START OF DEMOLITION.

1 / L1.000 TYPICAL TREE PROTECTION DETAIL

NOT TO SCALE

Tree Mitigation:

Municipal Tree Mitigation Site Data:

Total Significant Tree Inches On-Site:	29,296
Total Significant Inches Removed:	21,392
Total Significant Inches on Site Planted by Previous Owner:	27,327
Total 'Previous Owner Planted' Significant Inches Removed:	20,653
Total 'Previous Owner Planted' Significant Inches to Remain as Credit:	6,674

Municipal Tree Mitigation Calculation:

30% Allowed Removal:	590

[(Total Significant Inches On-Site) - (Total Significant Inches on Site Planted by Previous Owner)] x 0.30
29,296 - 27,327 = 1,969 x 0.30 = 590

Inches Requiring Mitigation:	149

[(Total Significant Inches Removed) - (Total 'Previous Owner Planted' Significant Inches Removed)] - 30% Allowed Removal
21,392 - 20,653 = 739 - 590 = 149

Remaining Inches Requiring Mitigation after Credit is Applied:	0

Replacement Inches Requiring Mitigation - Previous Owner Planted Significant Inches to Remain as Credit
149 - 6,674 = 0

A SUBSTANTIAL AMOUNT OF EXISTING TREES ON THIS PROPERTY WERE PLANTED BY THE PREVIOUS LANDOWNER BETWEEN 1992 & 2003.

REFER TO THE L3.000 SHEET SERIES FOR TREE INVENTORY CHART

NEW LAKE ELMO ELEMENTARY SCHOOL

Stillwater Area Public Schools ISD #834
1875 Greeley Street South
Stillwater, MN 55082

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

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

CALYX DESIGN GROUP
Landscape Architecture Planning
475 Cleveland Avenue N. | Suite 101A
Saint Paul, MN 55104
651.788.9018 | calyxdesigngroup.com

© 2024 CALYX Design Group, LLC. All rights reserved.

I hereby certify that this plan, specifications 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.

Benjamin D. Hartberg, PLA

Date: xx.xx.xxxx Lic. No.: 48084

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: HL
Check: BH

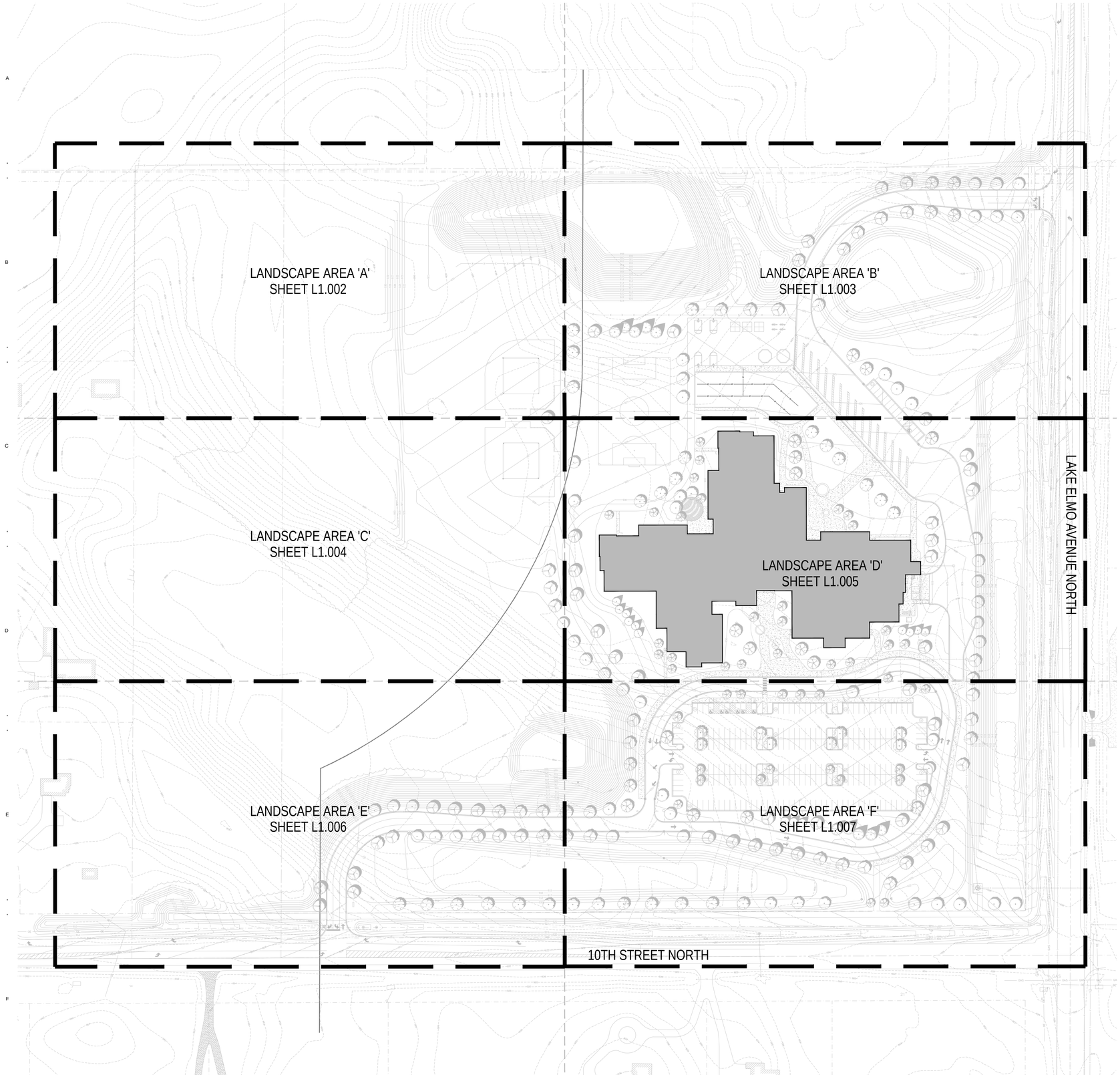
North

TREE PRESERVATION & MITIGATION PLAN

L1.000

X:\Projects\2024 Projects\24-127 Lake Elmo Elementary School, Lake Elmo, MN\24127_LANDSCAPE_2ndSk City Submittal_08-23-2024.dwg

MN



General Notes:

1. See Civil Engineer's plans for site plan layout and dimensions.
2. Contractor to coordinate all work in the city right-of-way with City of Lake Elmo Public Works Department.
3. See Architect's plans for additional requirements regarding the site plan layout.
4. Place a minimum of 6" topsoil or slope dressing on all areas disturbed by construction, including right-of-way boulevards, unless specified otherwise.
5. See Civil Engineer's Plans for proposed utilities.

Landscape Requirements:

Site Data
Street Frontage: approx. 2,790 lineal feet
Acres of Disturbance: approx. 34 acres
Parking Stalls: 224
Existing Significant Trees to Remain On Site as Credit: 719

Required Trees
1 Tree per 50' of street frontage
2,790 / 50 = 55 Trees
(+)
5 Trees per acre of disturbance
5 x 34 = 170 Trees
(=)
225 Total Required Trees
(-)
719 Existing Significant Trees to Remain On Site
(=)

0 Remaining Trees Owed

253 Trees Proposed per Plan

Notes
25% minimum of required landscape trees shall be coniferous
25% minimum of required landscape trees shall be deciduous
15% maximum of required landscape trees may be ornamental
1 shade tree per 15 parking lot stalls minimum
224 stalls / 15 = 15 Shade Trees

811 Know what's below. Call before you dig.

CONTRACTOR(S) ARE RESPONSIBLE FOR OBTAINING UTILITY LOCATES, INCLUDE PRIVATE UTILITIES SUCH AS PHONE AND CABLE. CALL NO LESS THAN 48 HOURS IN ADVANCE.

0 80' 160'
SCALE: 1" = 80'-0"

NORTH

NEW LAKE ELMO ELEMENTARY SCHOOL

Stillwater Area Public Schools ISD #834
1875 Greeley Street South
Stillwater, MN 55082

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

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

CALYX DESIGN GROUP
Landscape Architecture
Planning
475 Cleveland Avenue N. | Suite 101A
Saint Paul, MN 55104
651.788.9018 | calyxdesigngroup.com

© 2024 CALYX Design Group, LLC. All rights reserved.

I hereby certify that this plan, specifications 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.

Benjamin D. Hartberg, PLA

Date: xx.xx.xxxx Lic. No.: 48084

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: HL
Check: BH

North

OVERVIEW LANDSCAPE PLAN

L1.001

X:\Projects\2024 Projects\24-127 Lake Elmo Elementary School, Lake Elmo, MN\24127_LANDSCAPE_24x36 City Submittal_08-23-2024.dwg

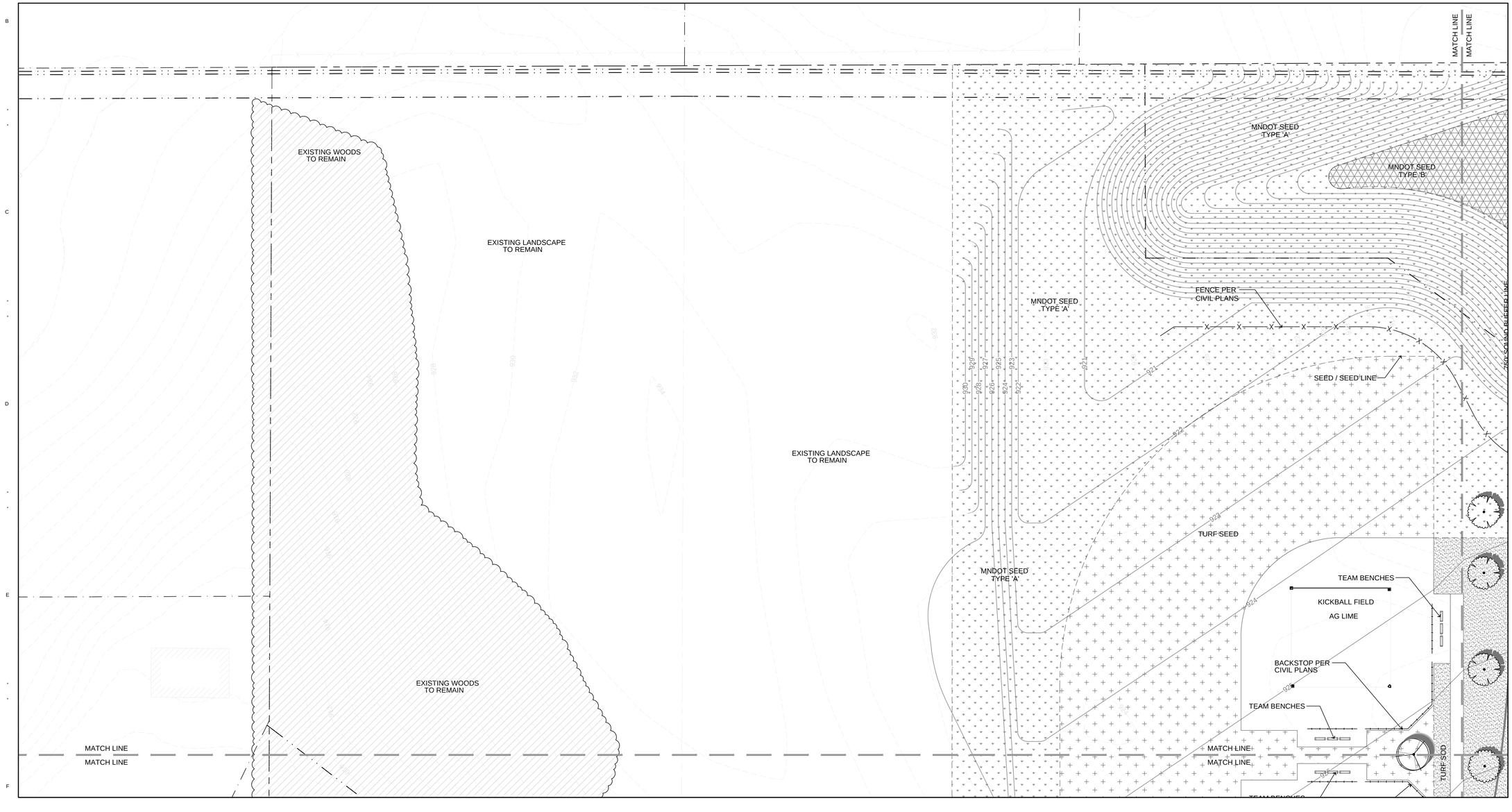
MN

General Notes:

1. See Civil Engineer's plans for site plan layout and dimensions.
2. Contractor to coordinate all work in the city right-of-way with City of Lake Elmo Public Works Department.
3. See Architect's plans for additional requirements regarding the site plan layout.
4. Place a minimum of 6" topsoil or slope dressing on all areas disturbed by construction, including right-of-way boulevards, unless specified otherwise.
5. See Civil Engineer's Plans for proposed utilities.

Landscape Legend:

- Turf Seed per Specifications
- Turf Sod per Specifications
- MNDOT Seed Type 'A' per Schedule
- MNDOT Seed Type 'B' per Schedule
- MNDOT Seed Type 'C' per Schedule
- Live Plugs per Schedule



811 Know what's below. Call before you dig.

CONTRACTOR(S) ARE RESPONSIBLE FOR OBTAINING UTILITY LOCATES, INCLUDE PRIVATE UTILITIES SUCH AS PHONE AND CABLE. CALL NO LESS THAN 48 HOURS IN ADVANCE.

0 30' 60'

SCALE: 1" = 30'-0"

NORTH

NEW LAKE ELMO ELEMENTARY SCHOOL

Stillwater Area Public Schools ISD #834
1875 Greeley Street South
Stillwater, MN 55082

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldac.com | 651 227 7773

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

CALYX DESIGN GROUP
Landscape Architecture Planning
475 Cleveland Avenue N. | Suite 101A
Saint Paul, MN 55104
651.788.9018 | calyxdesigngroup.com

© 2024 CALYX Design Group, LLC. All rights reserved.

I hereby certify that this plan, specifications 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.

Benjamin D. Hartberg, PLA

Date: xx.xx.xxxx Lic. No.: 48084

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: HL
Check: BH

North

LANDSCAPE LAYOUT PLAN AREA 'A'

L1.002

X:\Projects\2024 Projects\24-127 Lake Elmo Elementary School, Lake Elmo, MN\24127_LANDSCAPE_2A\06 City Submittal_08-23-2024.dwg

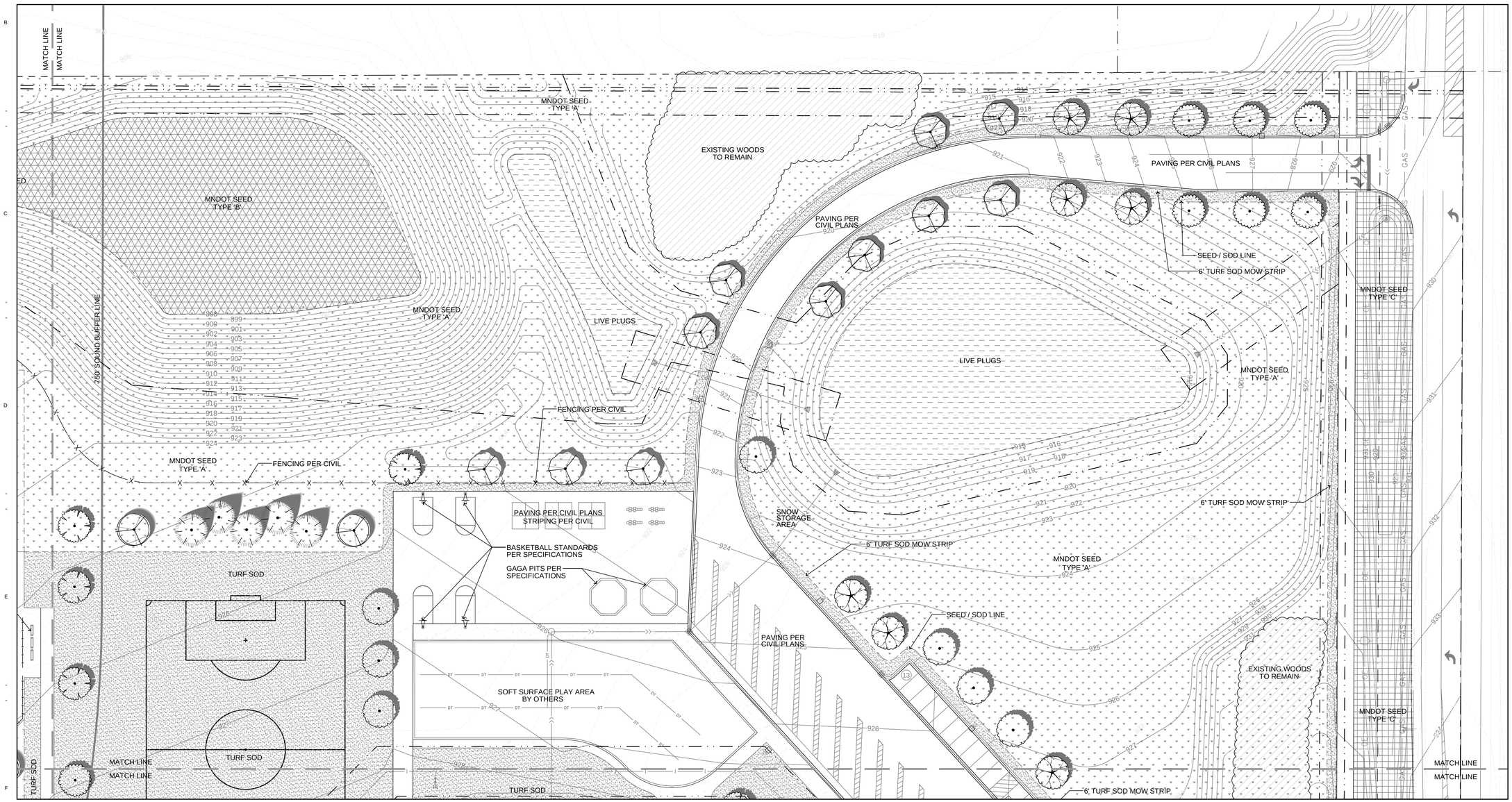
MN

General Notes:

1. See Civil Engineer's plans for site plan layout and dimensions.
2. Contractor to coordinate all work in the city right-of-way with City of Lake Elmo Public Works Department.
3. See Architect's plans for additional requirements regarding the site plan layout.
4. Place a minimum of 6" topsoil or slope dressing on all areas disturbed by construction, including right-of-way boulevards, unless specified otherwise.
5. See Civil Engineer's Plans for proposed utilities.

Landscape Legend:

- Turf Seed per Specifications
- Turf Sod per Specifications
- MNDOT Seed Type 'A' per Schedule
- MNDOT Seed Type 'B' per Schedule
- MNDOT Seed Type 'C' per Schedule
- Live Plugs per Schedule



811 Know what's below. Call before you dig.

CONTRACTOR(S) ARE RESPONSIBLE FOR OBTAINING UTILITY LOCATES, INCLUDE PRIVATE UTILITIES SUCH AS PHONE AND CABLE. CALL NO LESS THAN 48 HOURS IN ADVANCE.

0 30' 60'

SCALE: 1" = 30'-0"

NORTH

NEW LAKE ELMO ELEMENTARY SCHOOL

Stillwater Area Public Schools ISD #834
1875 Greeley Street South
Stillwater, MN 55082

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

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

CALYX DESIGN GROUP
Landscape Architecture Planning
475 Cleveland Avenue N. | Suite 101A
Saint Paul, MN 55104
651.788.9018 | calyxdesigngroup.com

© 2024 CALYX Design Group, LLC. All rights reserved.

I hereby certify that this plan, specifications 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.

Benjamin D. Hartberg, PLA

Date: xx.xx.xxxx Lic. No.: 48084

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: HL
Check: BH

North

LANDSCAPE LAYOUT PLAN AREA 'B'

L1.003

X:\Projects\2024 Projects\24-127 Lake Elmo Elementary School, Lake Elmo, MN\24127_LANDSCAPE_2nd\06 City Submittal_08-23-2024.dwg

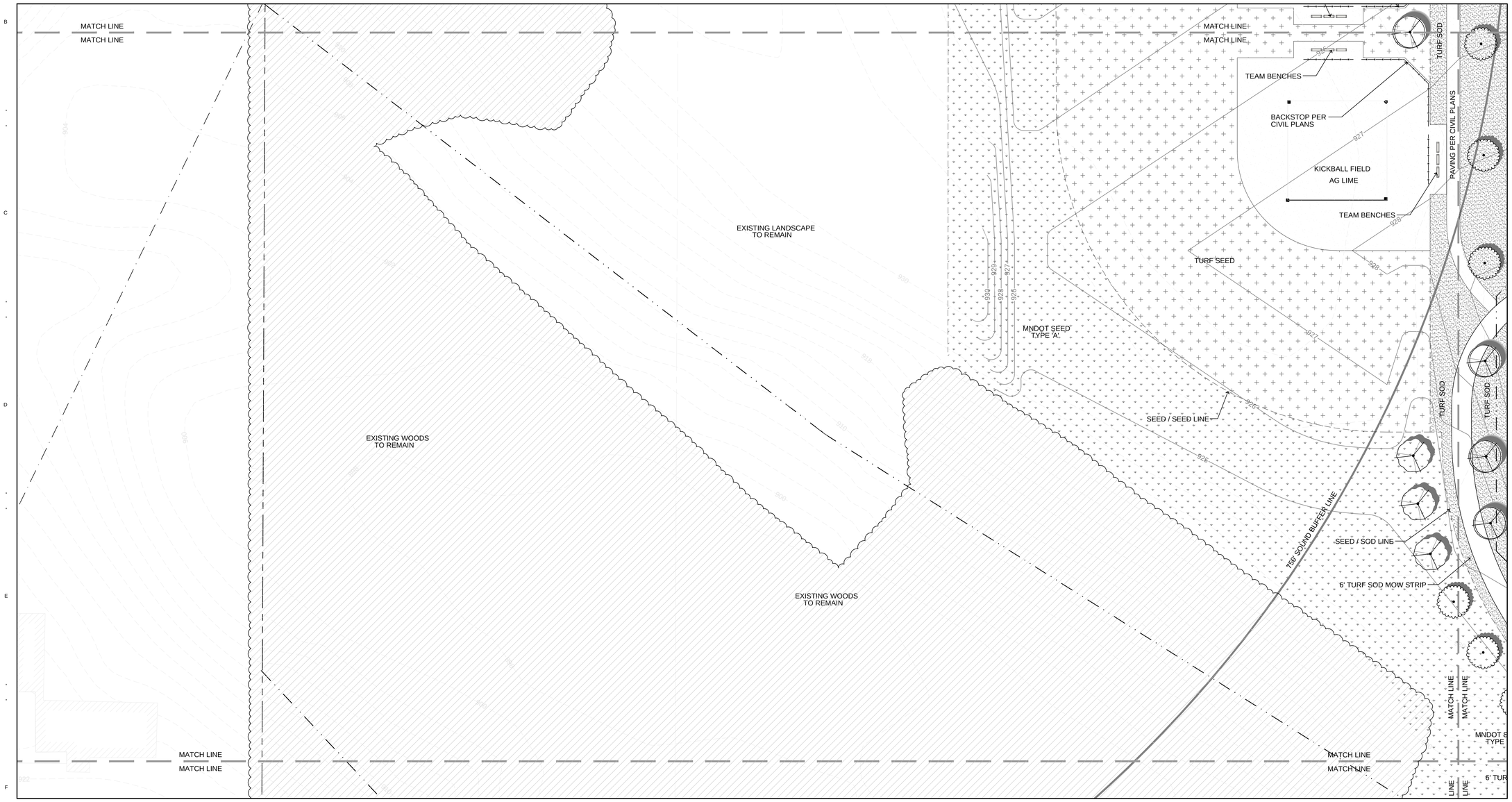
MN

General Notes:

1. See Civil Engineer's plans for site plan layout and dimensions.
2. Contractor to coordinate all work in the city right-of-way with City of Lake Elmo Public Works Department.
3. See Architect's plans for additional requirements regarding the site plan layout.
4. Place a minimum of 6" topsoil or slope dressing on all areas disturbed by construction, including right-of-way boulevards, unless specified otherwise.
5. See Civil Engineer's Plans for proposed utilities.

Landscape Legend:

- Turf Seed per Specifications
- Turf Sod per Specifications
- MNDOT Seed Type 'A' per Schedule
- MNDOT Seed Type 'B' per Schedule
- MNDOT Seed Type 'C' per Schedule
- Live Plugs per Schedule



811 Know what's below. Call before you dig.

CONTRACTOR(S) ARE RESPONSIBLE FOR OBTAINING UTILITY LOCATES, INCLUDE PRIVATE UTILITIES SUCH AS PHONE AND CABLE. CALL NO LESS THAN 48 HOURS IN ADVANCE.

0 30' 60'

SCALE: 1" = 30'-0"

NORTH

X:\Projects\2024 Projects\24-127 Lake Elmo Elementary School, Lake Elmo, MN\24127_LANDSCAPE_24x36 City Submittal_08-23-2024.dwg

NEW LAKE ELMO ELEMENTARY SCHOOL

Stillwater Area Public Schools ISD #834
1875 Greeley Street South
Stillwater, MN 55082

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldac.com | 651 227 7773

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

CALYX DESIGN GROUP
Landscape Architecture
Planning
475 Cleveland Avenue N. | Suite 101A
Saint Paul, MN 55104
651.788.9018 | calyxdesigngroup.com

© 2024 CALYX Design Group, LLC. All rights reserved.

I hereby certify that this plan, specifications 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.

Benjamin D. Hartberg, PLA

Date: xx.xx.xxxx Lic. No.: 48084

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: HL
Check: BH

North

LANDSCAPE LAYOUT PLAN AREA 'C'

L1.004

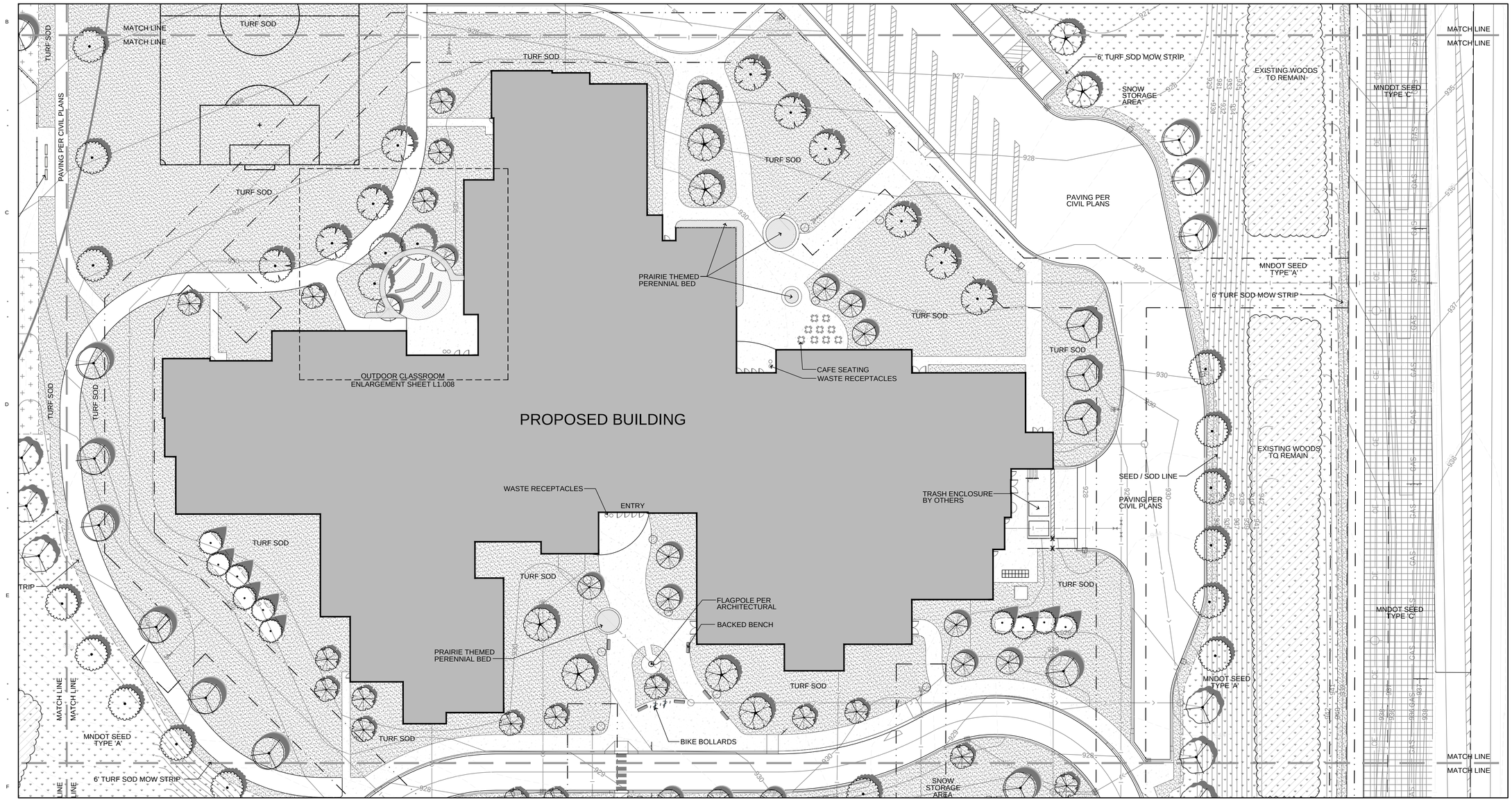
MN

General Notes:

1. See Civil Engineer's plans for site plan layout and dimensions.
2. Contractor to coordinate all work in the city right-of-way with City of Lake Elmo Public Works Department.
3. See Architect's plans for additional requirements regarding the site plan layout.
4. Place a minimum of 6" topsoil or slope dressing on all areas disturbed by construction, including right-of-way boulevards, unless specified otherwise.
5. See Civil Engineer's Plans for proposed utilities.

Landscape Legend:

- Turf Seed per Specifications
- Turf Sod per Specifications
- MNDOT Seed Type 'A' per Schedule
- MNDOT Seed Type 'B' per Schedule
- MNDOT Seed Type 'C' per Schedule
- Live Plugs per Schedule



811 Know what's below. Call before you dig.
CONTRACTOR(S) ARE RESPONSIBLE FOR OBTAINING UTILITY LOCATES, INCLUDE PRIVATE UTILITIES SUCH AS PHONE AND CABLE. CALL NO LESS THAN 48 HOURS IN ADVANCE.

SCALE: 1" = 30'-0" NORTH

NEW LAKE ELMO ELEMENTARY SCHOOL

Stillwater Area Public Schools ISD #834
1875 Greeley Street South
Stillwater, MN 55082

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

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

CALYX DESIGN GROUP
Landscape Architecture Planning
475 Cleveland Avenue N. | Suite 101A
Saint Paul, MN 55104
651.788.9018 | calyxdesigngroup.com
© 2024 CALYX Design Group, LLC. All rights reserved.

I hereby certify that this plan, specifications 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.

Benjamin D. Hartberg, PLA
Date: xx.xx.xxxx Lic. No.: 48084

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: HL
Check: BH

LANDSCAPE LAYOUT PLAN AREA 'D'

L1.005

X:\Projects\2024 Projects\24-127 Lake Elmo Elementary School, Lake Elmo, MN\24127_LANDSCAPE_24x36 City Submittal_08-23-2024.dwg

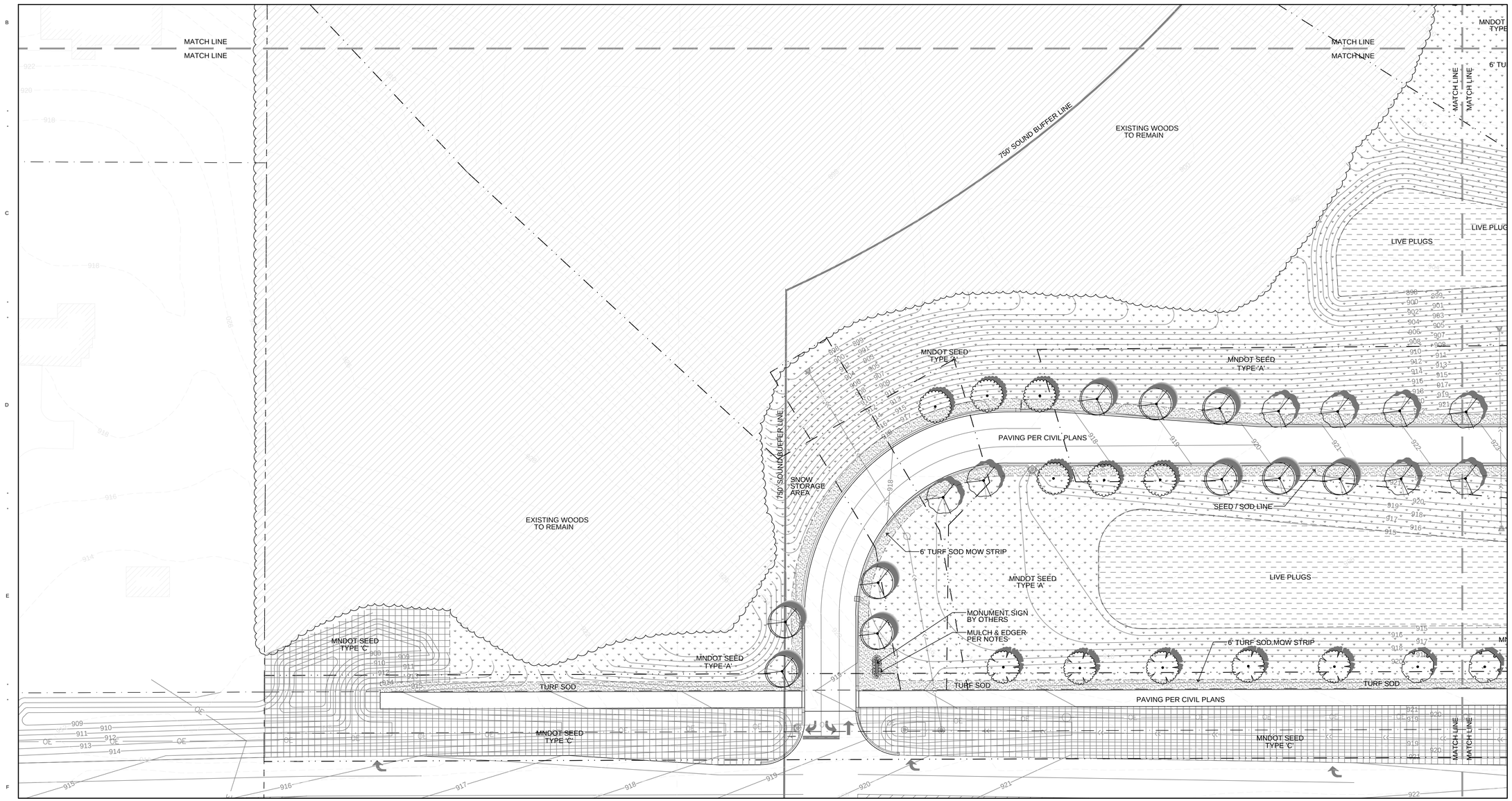
MN

General Notes:

1. See Civil Engineer's plans for site plan layout and dimensions.
2. Contractor to coordinate all work in the city right-of-way with City of Lake Elmo Public Works Department.
3. See Architect's plans for additional requirements regarding the site plan layout.
4. Place a minimum of 6" topsoil or slope dressing on all areas disturbed by construction, including right-of-way boulevards, unless specified otherwise.
5. See Civil Engineer's Plans for proposed utilities.

Landscape Legend:

- Turf Seed per Specifications
- Turf Sod per Specifications
- MNDOT Seed Type 'A' per Schedule
- MNDOT Seed Type 'B' per Schedule
- MNDOT Seed Type 'C' per Schedule
- Live Plugs per Schedule



Know what's below. Call before you dig.

CONTRACTOR(S) ARE RESPONSIBLE FOR OBTAINING UTILITY LOCATES, INCLUDE PRIVATE UTILITIES SUCH AS PHONE AND CABLE. CALL NO LESS THAN 48 HOURS IN ADVANCE.

0 30' 60'

SCALE: 1" = 30'-0"

NORTH

NEW LAKE ELMO ELEMENTARY SCHOOL

Stillwater Area Public Schools ISD #834
1875 Greeley Street South
Stillwater, MN 55082

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

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

CALYX DESIGN GROUP
Landscape Architecture Planning
475 Cleveland Avenue N. | Suite 101A
Saint Paul, MN 55104
651.788.9018 | calyxdesigngroup.com

© 2024 CALYX Design Group, LLC. All rights reserved.

I hereby certify that this plan, specifications 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.

Benjamin D. Hartberg, PLA

Date: xx.xx.xxxx Lic. No.: 48084

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: HL
Check: BH

North

LANDSCAPE LAYOUT PLAN AREA 'E'

L1.006

X:\Projects\2024 Projects\24-127 Lake Elmo Elementary School, Lake Elmo, MN\24127_LANDSCAPE_2\Acbl\ City Submittal_08-23-2024.dwg

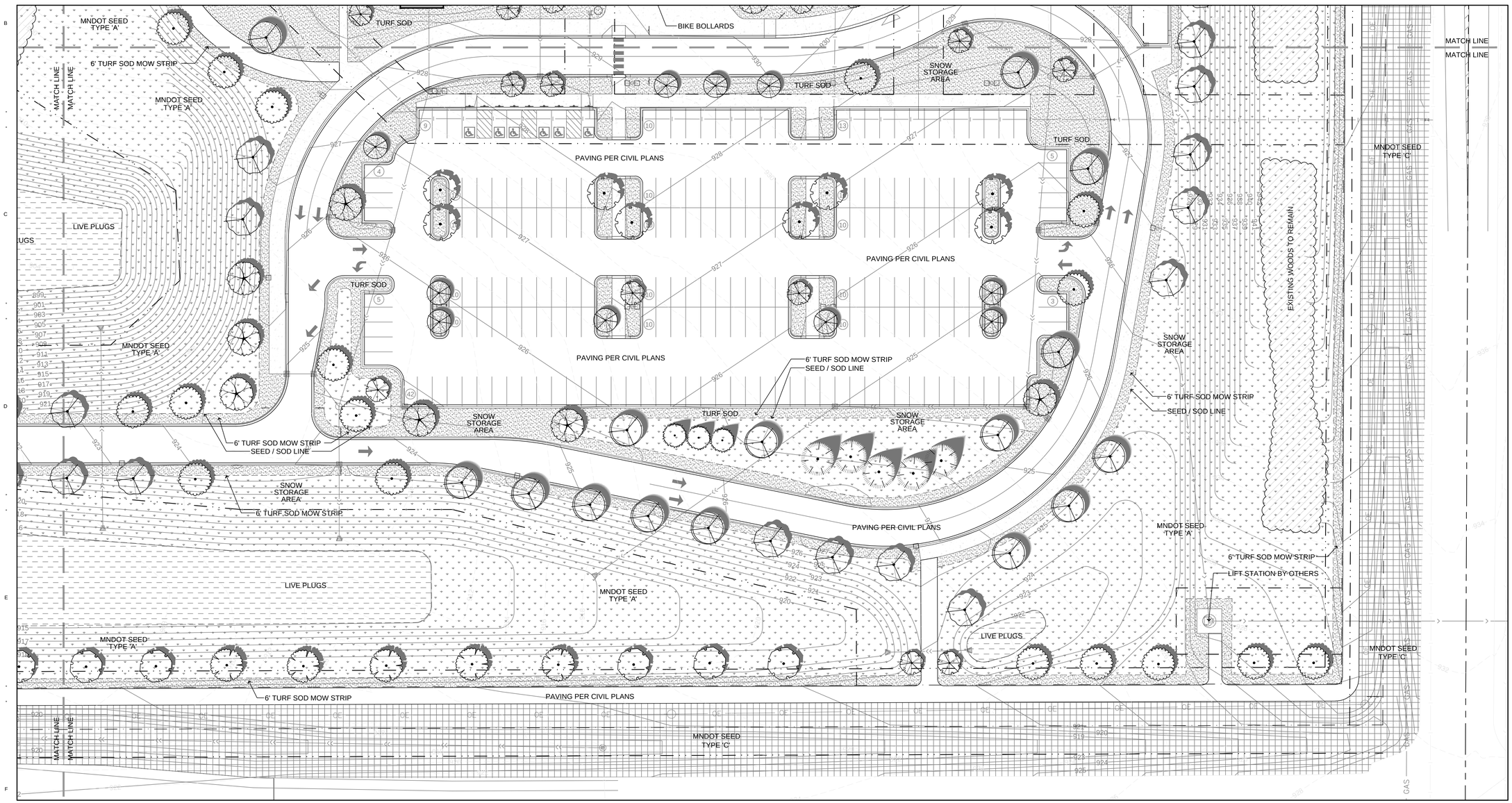
MN

General Notes:

1. See Civil Engineer's plans for site plan layout and dimensions.
2. Contractor to coordinate all work in the city right-of-way with City of Lake Elmo Public Works Department.
3. See Architect's plans for additional requirements regarding the site plan layout.
4. Place a minimum of 6" topsoil or slope dressing on all areas disturbed by construction, including right-of-way boulevards, unless specified otherwise.
5. See Civil Engineer's Plans for proposed utilities.

Landscape Legend:

- Turf Seed per Specifications
- Turf Sod per Specifications
- MNDOT Seed Type 'A' per Schedule
- MNDOT Seed Type 'B' per Schedule
- MNDOT Seed Type 'C' per Schedule
- Live Plugs per Schedule



811 Know what's below. Call before you dig.
CONTRACTOR(S) ARE RESPONSIBLE FOR OBTAINING UTILITY LOCATES, INCLUDE PRIVATE UTILITIES SUCH AS PHONE AND CABLE. CALL NO LESS THAN 48 HOURS IN ADVANCE.

SCALE: 1" = 30'-0" (0, 30', 60')

NORTH

NEW LAKE ELMO ELEMENTARY SCHOOL

Stillwater Area Public Schools ISD #834
1875 Greeley Street South
Stillwater, MN 55082

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

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

CALYX DESIGN GROUP
Landscape Architecture Planning
475 Cleveland Avenue N. | Suite 101A
Saint Paul, MN 55104
651.788.9018 | calyxdesigngroup.com
© 2024 CALYX Design Group, LLC. All rights reserved.

I hereby certify that this plan, specifications 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.

Benjamin D. Hartberg, PLA
Date: xx.xx.xxxx Lic. No.: 48084

Revisions		
Description	Date	Num

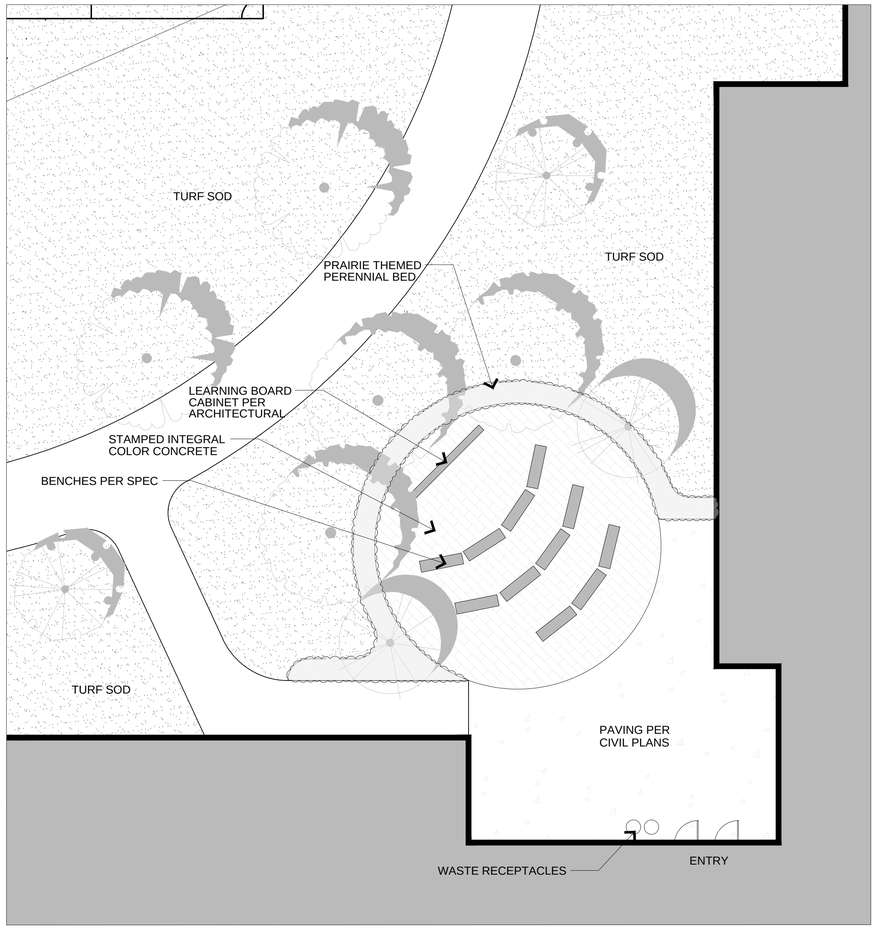
Comm: 12236128
Date: 08-23-2024
Drawn: HL
Check: BH

LANDSCAPE LAYOUT PLAN AREA 'F'

L1.007

X:\Projects\2024 Projects\24-127 Lake Elmo Elementary School, Lake Elmo, MN\24127_LANDSCAPE_24-08 City Submittal_08-23-2024.dwg

MN



1 OUTDOOR CLASSROOM ENLARGEMENT

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY	REMARKS
EVERGREEN TREES							
	Pd	Picea glauca `Densata`	Black Hills Spruce	6` Hgt.	B&B	13	
	Pn3	Pinus nigra	Austrian Pine	6` Hgt.	B&B	10	
ORNAMENTAL TREES							
	MS	Malus x `Spring Snow`	Spring Snow Crab Apple	2" Cal.	B&B	23	
	Sl	Syringa reticulata `Ivory Silk`	Ivory Silk Japanese Tree Lilac	2" Cal.	B&B	21	
OVERSTORY TREE							
	As	Acer x freemanii `Sienna`	Sienna Glen Maple	2.5" Cal.	B&B	37	
	Br	Betula nigra	River Birch	6` Hgt.	B&B	11	Clump Form
	Co	Celtis occidentalis	Common Hackberry	2.5" Cal.	B&B	24	
	Gi	Gleditsia triacanthos inermis `Skycole` TM	Skyline Thornless Honey Locust	2.5" Cal.	B&B	22	
	GD	Gleditsia triacanthos inermis 'Draves' TM	Street Keeper Honey Locust	2.5" Cal.	B&B	8	
	Ov2	Ostrya virginiana	Ironwood	2.5" Cal.	B&B	41	
	Pt	Populus tremuloides	Quaking Aspen	2.5" Cal.	B&B	10	
	QB	Quercus bicolor	Swamp White Oak	2.5" Cal.	B&B	6	
	Qr	Quercus rubra	Northern Red Oak	2.5" Cal.	B&B	27	Spring Dug
ANNUALS/PERENNIALS							
	Ha2	Hemerocallis x `Happy Returns`	Happy Returns Daylily	1 gal.	Pot	10	
GRASSES							
	Ck	Calamagrostis x acutiflora `Karl Foerster`	Feather Reed Grass	1 gal.	Pot	6	

811 Know what's below. Call before you dig.

CONTRACTOR(S) ARE RESPONSIBLE FOR OBTAINING UTILITY LOCATES. INCLUDE PRIVATE UTILITIES SUCH AS PHONE AND CABLE. CALL NO LESS THAN 48 HOURS IN ADVANCE.

NEW LAKE ELMO ELEMENTARY SCHOOL

Stillwater Area Public Schools ISD #834
1875 Greeley Street South
Stillwater, MN 55082

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldac.com | 651 227 7773

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

CALYX DESIGN GROUP
Landscape Architecture Planning
475 Cleveland Avenue N. | Suite 101A
Saint Paul, MN 55104
651.788.9018 | calyxdesigngroup.com

© 2024 CALYX Design Group, LLC. All rights reserved.

I hereby certify that this plan, specifications 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.

Benjamin D. Hartberg, PLA

Date: xx.xx.xxxx Lic. No.: 48084

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: HL
Check: BH

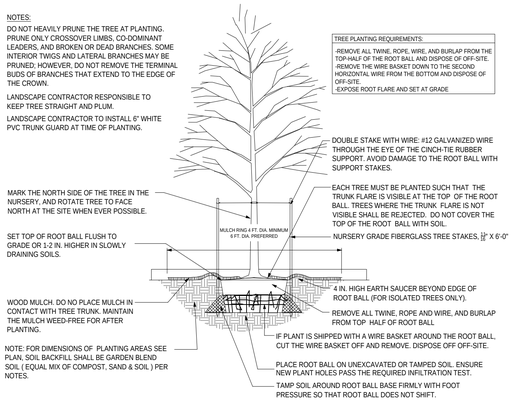
North

LANDSCAPE ENLARGEMENTS

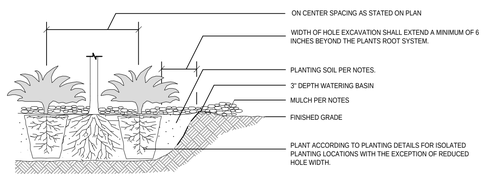
L1.008

X:\Projects\2024 Projects\24-127 Lake Elmo Elementary School, Lake Elmo, MN\24127_LANDSCAPE_24x36 City Submittal_08-23-2024.dwg

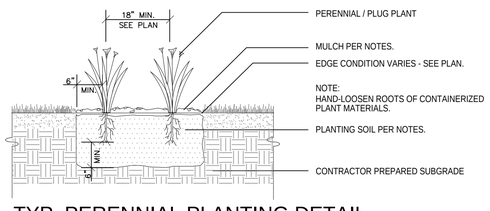
MN



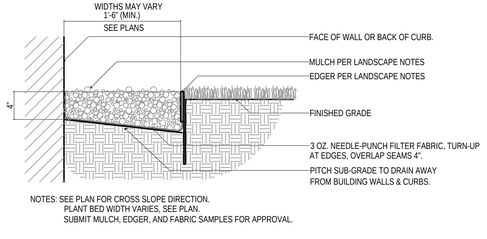
1 DECIDUOUS TREE PLANTING DETAIL
NOT TO SCALE



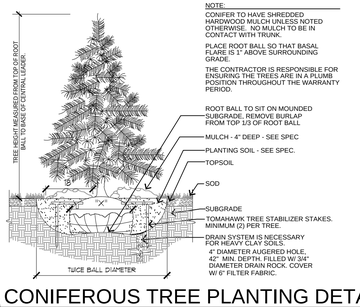
2 TYP. SHRUB PLANTING DETAIL
NOT TO SCALE



3 TYP. PERENNIAL PLANTING DETAIL
NOT TO SCALE



4 TYPICAL MULCH & EDGER DETAIL
NOT TO SCALE



5 CONIFEROUS TREE PLANTING DETAIL
NOT TO SCALE

Tree Preservation & Protection Notes:

Existing boundary, location, topographic, and utility information shown on this plan is from a field survey from James R. Hill, Inc.

- Do not begin tree clearing work until tree protection measures are in place and to the permit approval of the City Forester has been granted.
- Critical Root Zone:
  Install high density polyethylene safety fence, 4 ft. high, international orange, at the Drip Line or at the Critical Root Zone whichever is greater, of trees to be preserved per detail, prior to commencement of earthwork activity. Field-staking of the fence location(s) subject to City approval.
- Where silt fence and proposed tree protection fence overlap, place the tree protection fence on the outside of the silt fence, double-staked at the break-point.
- Refer to Tree Protection Detail
- The contractor shall prune the canopy of existing trees to remain where the canopy is in jeopardy of damage due to the new improvements shown. It is recommended that the contractor hire a certified arborist to perform the pruning. Any branches broken during construction shall be immediately trimmed and wounds painted to prevent further damage.
- Perform work in accordance with the laws, ordinances, rules, regulations, and orders of public authority having jurisdiction. Secure and pay for permits, governmental fees and licenses necessary for the proper execution of the demolition work.
- Provide protective coverings and enclosures as necessary to prevent damage to existing work that is to remain. Existing work to remain may include items such as trees, shrubs, lawns, sidewalks, drives, curbs, utilities, buildings and/or other structures on or adjacent to the demolition site. Provide temporary fences and barricades as required for the safe and proper execution of the work and the protection of persons and property.
- Remove debris, waste, and rubbish promptly from the site. On-site burial of debris is not permitted. Burn no debris on the site. Salvage material not otherwise indicated to be reused shall become the Contractor's property and is to be removed promptly from the site and disposed of in strict accordance with all applicable laws, regulations, and/or statutes.
- Buildings, features, surfaces, and other descriptive references shown on this drawing are for informational purposes only. Field verify all information relevant to the project prior to proceeding with the work. Visit the site and determine all site conditions and hazards.
- This plan is a guide as to the anticipated amount of disturbance expected due to proposed improvements. The contractor is expected to take all necessary precautions to ensure trees noted to remain are not damaged during construction. Do not store material or drive within the drip line of existing trees to remain. Be aware of overhead branches for clearance of material and equipment.
- This plan is not a guarantee that existing trees will survive during/post construction, but rather a guide to help assure their protection and greatest chances of survival at the surface level. Further protection measures outside this scope could involve ecologists, foresters and arborists.
- Notify the Owner's Representative when tree protection fencing is taken down to perform work in conjunction with the new improvements noted in this plan set. The contractor is responsible for re-erecting the tree protection fence immediately after the work is complete, when ever possible
- Trees shown as existing to remain (be preserved) that are damaged / killed as a result of construction activities are subject to replacement per the City Tree Replacement penalty. Replacement trees are to be paid for at no additional expense to the Owner.

NEW LAKE ELMO ELEMENTARY SCHOOL

Stillwater Area Public Schools ISD #834
1875 Greeley Street South
Stillwater, MN 55082

WOLD ARCHITECTS AND ENGINEERS
332 Minnesota Street, Suite W2000
Saint Paul, MN 55101
woldac.com | 651 227 7773

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

CALYX DESIGN GROUP
Landscape Architecture Planning
475 Cleveland Avenue N. | Suite 101A
Saint Paul, MN 55104
651.788.9018 | calyxdesigngroup.com

© 2024 CALYX Design Group, LLC. All rights reserved.

I hereby certify that this plan, specifications 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.

Benjamin D. Hartberg, PLA

Date: xx.xx.xxxx Lic. No.: 48084

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: HL
Check: BH

North

LANDSCAPE DETAILS

L2.001

811 Know what's below. Call before you dig.
CONTRACTOR(S) ARE RESPONSIBLE FOR OBTAINING UTILITY LOCATES, INCLUDE PRIVATE UTILITIES SUCH AS PHONE AND CABLE. CALL NO LESS THAN 48 HOURS IN ADVANCE.

C:\Projects\2024 Projects\2024-127 Lake Elmo Elementary School, Lake Elmo, MN\24127_LANDSCAPE_24x36 City Submittal_08-23-2024.dwg

MN

MNDOT SEED MIXES:

MNDOT Seed Type 'A' areas noted per plan: (unless otherwise noted on civil plans), shall be: MnDOT Southern Shortgrass Roadside seed mixture, drilled into the topsoil layer at 26.0 lbs per acre. Submit seed mix for approval. Grading and Erosion Control per Civil Plans and Specifications.

Add 20lbs per acre of MnDOT 21-111 Oats Cover Crop.

Southern Shortgrass Roadside

Abbreviation: SSR

Purpose:	**Inslopes and medians; full sun to part-shade; any site with dry soils that will get mowed twice per year or less. This mix meets pollinator habitat requirements.**
Planting Area:	**Southern 2/3 of MN; MnDOT Districts 3B, 4, 6, 7, 8, & Metro.**
Replaces:	**35-221 Dry Prairie General & 36-211 Woodland Edge S & W**
Cost Estimate:	**$950/acre (35-221 averages $860/acre, 36-211 averages $1,200/acre)**

Common Name	Scientific Name	Rate (lb/ac)	% of Mix (by weight)	% by Seed	Seeds/ sq ft
Side-oats Grama	*Bouteloua curtipendula*	3.50	13.46%	5.16%	7.71
Blue Grama	*Bouteloua gracilis*	0.90	3.46%	8.84%	13.22
Kalm's Brome	*Bromus kalmii*	0.90	3.46%	1.77%	2.64
Short Sedge	*Carex brevior*	0.10	0.38%	0.71%	1.07
Nodding Wild Rye	*Elymus canadensis*	2.50	9.62%	3.19%	4.78
Slender Wheatgrass	*Elymus trachycaulus*	6.00	23.08%	10.16%	15.21
Junegrass	*Koeleria macrantha*	0.10	0.38%	4.91%	7.35
Perennial Ryegrass	*Lolium perenne*	6.00	23.08%	19.98%	29.89
Little Bluestem	*Schizachyrium scoparium*	3.00	11.54%	11.05%	16.53
	Grasses Subtotal	**23.00**	**88.46%**	**65.76%**	**98.39**
Leadplant	*Amorpha canescens*	0.15	0.58%	0.45%	0.67
Long-headed Thimbleweed	*Anemone cylindrica*	0.04	0.00%	0.26%	0.38
Prairie Sage	*Artemisia ludoviciana*	0.05	0.19%	3.07%	4.59
Butterfly Milkweed	*Asclepias tuberosa*	0.10	0.38%	0.11%	0.16
Whorled Milkweed	*Asclepias verticillata*	0.05	0.19%	0.14%	0.20
Partridge Pea	*Chamaecrista fasiculata*	0.60	2.31%	0.40%	0.60
Purple Prairie Clover	*Dalea purpurea*	0.50	1.92%	1.84%	2.75
Tall Cinquefoil	*Drymocallis arguta*	0.06	0.00%	3.39%	5.07
Narrow-leaved Purple Coneflower	*Echinacea angustifolia*	0.06	0.23%	0.10%	0.15
Stiff Sunflower	*Helianthus pauciflorus*	0.06	0.23%	0.06%	0.09
Alumroot	*Heuchera richardsonii*	0.04	0.15%	6.87%	10.28
Round-headed Bush Clover	*Lespedeza capitata*	0.20	0.77%	0.39%	0.59
Rough Blazing Star	*Liatris aspera*	0.05	0.19%	0.20%	0.29
Wild Bergamot	*Monarda fistulosa*	0.05	0.19%	0.86%	1.29
Prairie Coneflower	*Ratibida columnifera*	0.15	0.58%	1.55%	2.31
Black-eyed Susan	*Rudbeckia hirta*	0.25	0.96%	5.65%	8.45
Gray Goldenrod	*Solidago nemoralis*	0.05	0.19%	3.68%	5.51
Stiff Goldenrod	*Solidago rigida*	0.06	0.23%	0.60%	0.90
Heath Aster	*Symphyotrichum ericoides*	0.05	0.19%	2.45%	3.67
Sky-blue Aster	*Symphyotrichum oolentangiensis*	0.05	0.19%	0.98%	1.47
Prairie Rose	*Rosa arkansana*	0.10	0.38%	0.02%	0.03
Bracted Spiderwort	*Tradescantia bracteata*	0.08	0.31%	0.20%	0.29
Hoary Vervain	*Verbena stricta*	0.10	0.38%	0.69%	1.03
Heart-leaved Alexanders	*Zizia aptera*	0.10	0.38%	0.29%	0.44
	Forbs Subtotal	**3.00**	**11.12%**	**34.24%**	**51.23**
	Total	**26.00**	**100%**	**100%**	**149.63**

NATIVE SEED REQUIRED MAINTENANCE - 3 YRS:

Native Grass and Forb Mixtures (mixtures beginning with the number 3)

Year 1
Establishment (spring seeding):
1) Prepare site - Late April - May
2) Seed - May 1 - June 1
Maintenance:
1) Mow (6-8 inches) - every 30 days after planting until September 30.
2) Weed Control - mowing should help control annual weeds. Spot spray thistles, etc.

Establishment (fall seeding):
1) Prepare site - Late August - early September
2) Seed - late September to freeze-up
Maintenance (following season):
1) Mow (6-8 inches) - once in May, June, and July
2) Weed Control - mowing should keep annual weeds down. Spot spray thistles, etc.

Evaluation:
1) Cover crop growing within 2 weeks of planting (except dormant plantings).
2) Seedlings spaced 1-6 inches apart in drill rows.
3) Native grass seedlings may only be 4-6 inches tall.
4) If there is a flush of growth from foxtail etc., mow as necessary.

Year 2
Maintenance:
1) Mow (6-8 inches) one time between June 1 - August 15 before weeds set seed.
2) Weed Control - mowing should keep annual weeds down. Spot spray thistles, etc.
3) Some sites may not require much maintenance the second year.
Evaluation:
1) Cover crop will be gone unless winter wheat was used in a fall planting.
2) Grasses forming clumps 1-6 inches apart in drill rows, but still short.
3) Some flowers should be blooming (black-eyed Susans, bergamot, etc.).
4) If there is a flush of growth from foxtail etc., mow site.

Year 3
Maintenance:
1) Mow only if necessary.
2) Weed Control - Spot spray thistles, etc.
3) Sites usually do not require much maintenance the third year.
Evaluation:
1) Planting should begin looking like a prairie - tall grasses, flowers, etc.

Long-term
Maintenance:
1) Weed Control - Spot spray thistles, etc.
2) Burning (3-5 year rotation) alternate spring and fall if possible.
3) Haying (3-5 year rotation) late summer or early fall. Alternate with burning (may substitute for burning).
4) Burning two years in a row will really "clean up" rough-looking sites.

MNDOT Seed Type 'B' areas noted per plan: (unless otherwise noted on civil plans), shall be: MnDOT Wet Ditch seed mixture, drilled into the topsoil layer at 20.0 lbs per acre. Submit seed mix for approval. Grading and Erosion Control per Civil Plans and Specifications.

Add 20lbs per acre of MnDOT 21-111 Oats Cover Crop.

Wet Ditch

Abbreviation: WD

Purpose:	**Wet ditches and stormwater plantings in full sun or part shade; areas that get mowed once per year or less This mix meets pollinator habitat requirements.**
Planting Area:	**Statewide**
Replaces:	**33-261 Stormwater S & W; 33-361 Stormwater NE**
Cost Estimate:	**$1,000/acre (36-261 averages $900/acre & 33-361 averages $1,125/acre)**

Common Name	Scientific Name	Rate (lb/ac)	% of Mix (by weight)	% by Seed	Seeds/ sq ft
Big Bluestem	*Andropogon gerardii*	1.00	5.00%	1.10%	3.67
Fringed Brome	*Bromus ciliatus*	1.50	7.50%	1.81%	6.06
Bluejoint	*Calamagrostis canadensis*	0.05	0.25%	1.54%	5.14
Nodding Wild Rye	*Elymus canadensis*	2.00	10.00%	1.14%	3.82
Virginia Wild Rye	*Elymus virginicus*	4.00	20.00%	1.85%	6.17
Tall Manna Grass	*Glyceria grandis*	0.15	0.75%	1.15%	3.86
Rice Cut Grass	*Leersia oryzoides*	0.30	1.50%	1.12%	3.75
Perennial Ryegrass	*Lolium perenne*	6.00	30.00%	8.94%	29.89
Switchgrass	*Panicum virgatum*	0.50	2.50%	0.77%	2.57
Fowl Bluegrass	*Poa palustris*	1.00	5.00%	14.28 %	47.75
	Grasses Subtotal	**16.50**	**82.50%**	**33.70 %**	**112.68**
Porcupine Sedge	*Carex hystericina*	0.10	0.50%	0.33%	1.10
Awl-fruited Sedge	*Carex stipata*	0.05	0.25%	0.19%	0.62
Fox Sedge	*Carex vulpinoidea*	0.10	0.50%	1.10%	3.67
Dudley's Rush	*Juncus dudleyi*	0.05	0.25%	17.58 %	58.77
Dark Green Bulrush	*Scirpus atrovirens*	0.10	0.50%	5.05%	16.90
Woolgrass	*Scirpus cyperinus*	0.10	0.50%	18.68 %	62.44
	Sedges & Rushes Subtotal	**0.50**	**2.50%**	**42.92 %**	**143.51**
Canada Anemone	*Anemone canadensis*	0.05	0.25%	0.04%	0.15
Marsh Milkweed	*Asclepias incarnata*	0.25	1.25%	0.13%	0.44
Common Milkweed	*Asclepias syriaca*	0.20	1.00%	0.09%	0.29
Canada Milkvetch	*Astragalus canadensis*	0.50	2.50%	0.93%	3.12
Nodding Bur Marigold	*Bidens cernua*	0.10	0.50%	0.23%	0.77
Canada Tick Trefoil	*Desmodium canadense*	0.50	2.50%	0.30%	1.01
Flat-topped Aster	*Doellingeria umbellata*	0.05	0.25%	0.37%	1.23
Common Boneset	*Eupatorium perfoliatum*	0.05	0.25%	0.88%	2.94
Grass-leaved Goldenrod	*Euthamia graminifolia*	0.03	0.15%	1.15%	3.86
Spotted Joe Pye Weed	*Eutrochium maculatum*	0.06	0.30%	0.63%	2.09
Autumn Sneezeweed	*Helenium autumnale*	0.10	0.50%	1.43%	4.78
Sawtooth Sunflower	*Helianthus grosseserratus*	0.06	0.30%	0.10%	0.33
Prairie Blazing Star	*Liatris pycnostachya*	0.17	0.85%	0.21%	0.69
Great Lobelia	*Lobelia siphilitica*	0.05	0.25%	2.75%	9.18
Blue Monkey Flower	*Mimulus ringens*	0.03	0.15%	7.58%	25.34
Obedient Plant	*Physostegia virginiana*	0.06	0.30%	0.07%	0.24
Cut-leaf Coneflower	*Rudbeckia laciniata*	0.10	0.50%	0.15%	0.51
Stiff Goldenrod	*Solidago rigida*	0.10	0.50%	0.45%	1.51
Eastern Panicled Aster	*Symphyotrichum lanceolatum*	0.05	0.25%	0.86%	2.87
Red-stemmed Aster	*Symphyotrichum puniceum*	0.05	0.25%	0.44%	1.47
Tall Meadow Rue	*Thalictrum dasycarpum*	0.10	0.50%	0.22%	0.73
Blue Vervain	*Verbena hastata*	0.15	0.75%	1.53%	5.12
Culver's Root	*Veronicastrum virginicum*	0.03	0.15%	2.64%	8.82
Golden Alexanders	*Zizia aurea*	0.16	0.80%	0.19%	0.65
	Forbs Subtotal	**3.00**	**15.00%**	**23.37 %**	**78.14**
	Total	**20.00**	**100%**	**100%**	**334.33**

NATIVE SEEDING INSTALLATION METHOD:

Drop Seeding Onto Tilled Sites
This is the "standard" method for seeding on prepared sites such as those on construction projects.

a) Site Preparation: The site should be prepared by loosening topsoil to a minimum depth of 3 inches.
b) Fertilizer: Use a fertilizer analysis based on a soil test or a general recommendation is a 10-10-10 (NPK) commercial grade analysis at 200 lbs/acre.
c) Seed Installation: Seed should be installed with a drop seeder that will accurately meter the types of seed to be planted, keep all seeds uniformly mixed during the seeding and contain drop seed tubes for seed placement (Brillion-type). The drop seeder should be equipped with a cultipacker assembly to ensure seed-to-soil contact.
d) Seeding Rates: Rates are specified in the mixture tabulation for the specified mix.
e) Packing: If the drop seeder is not equipped with a cultipacker, the site should be cultipacked following the seeding to ensure seed-to-soil contact.
f) Mulch: Cover soil with a hydromulch consisting of natural wood fiber or paper fiber, water, and M-Binder at 100 lbs per acre.

Note: Heavy equipment is not allowed in the infiltration basins to keep soils from getting compacted. If any compaction occurs due to seeding operations, the soils must be uncompacted.

MNDOT Seed Type 'C' areas noted per plan: (unless otherwise noted on civil plans), shall be: MnDOT Southern Tallgrass Roadside seed mixture, drilled into the topsoil layer at 26.0 lbs per acre. Submit seed mix for approval. Grading and Erosion Control per Civil Plans and Specifications.

Add 20lbs per acre of MnDOT 21-111 Oats Cover Crop.

Southern Tallgrass Roadside

Abbreviation: STR

Purpose:	**backslopes and ditch bottoms; full sun to part-shade; any site with moderate moisture that will be mowed once per year or less This mix meets pollinator habitat requirements.**
Planting Area:	**Southern 2/3 of MN; MnDOT Districts 3B, 4, 6, 7, 8, & Metro.**
Replaces:	**35-241 Mesic Prairie General & 36-211 Woodland Edge S & W**
Cost Estimate:	**$680/acre (35-241 averages $560/acre & 36-211 averages $1,200/acre)**

Common Name	Scientific Name	Rate (lb/ac)	% of Mix (by weight)	% by Seed	Seeds/ sq ft
Big Bluestem	*Andropogon gerardii*	2.50	9.62%	7.87%	9.18
Side-oats Grama	*Bouteloua curtipendula*	2.00	7.69%	3.78%	4.41
Kalm's Brome	*Bromus kalmii*	0.90	3.46%	2.27%	2.64
Nodding Wild Rye	*Elymus canadensis*	4.00	15.38%	6.55%	7.64
Slender Wheatgrass	*Elymus trachycaulus*	5.00	19.23%	10.86%	12.67
Perennial Ryegrass	*Lolium perenne*	6.00	23.08%	25.62%	29.89
Switchgrass	*Panicum virgatum*	0.25	0.96%	1.10%	1.29
Indian Grass	*Sorghastrum nutans*	2.25	8.65%	8.50%	9.92
Prairie Dropseed	*Sporobolus heterolepis*	0.10	0.38%	0.50%	0.59
	Grasses Subtotal	**23.00**	**88.45%**	**67.05%**	**78.23**
Common Yarrow	*Achillea millefolium*	0.03	0.12%	1.68%	1.96
Marsh Milkweed	*Asclepias incarnata*	0.05	0.19%	0.08%	0.09
Common Milkweed	*Asclepias syriaca*	0.05	0.19%	0.06%	0.07
Butterfly Milkweed	*Asclepias tuberosa*	0.10	0.38%	0.14%	0.16
Canada Milkvetch	*Astragalus canadensis*	0.20	0.77%	1.07%	1.25
Partridge Pea	*Chamaecrista fasciculata*	0.50	1.92%	0.43%	0.50
Field Thistle	*Cirsium discolor*	0.05	0.19%	0.12%	0.14
White Prairie Clover	*Dalea candida*	0.50	1.92%	2.99%	3.49
Canada Tick Trefoil	*Desmodium canadense*	0.25	0.96%	0.43%	0.51
Maximilian's Sunflower	*Helianthus maximiliani*	0.10	0.38%	0.41%	0.48
Early Sunflower	*Heliopsis helianthoides*	0.10	0.38%	0.20%	0.23
Northern Plains Blazing Star	*Liatris ligulistylis*	0.05	0.19%	0.16%	0.18
Wild Bergamot	*Monarda fistulosa*	0.05	0.19%	1.10%	1.29
Common Evening Primrose	*Oenothera biennis*	0.05	0.19%	1.42%	1.65
Virginia Mountain Mint	*Pycnanthemum virginianum*	0.03	0.12%	2.08%	2.42
Gray-headed Coneflower	*Ratibida pinnata*	0.10	0.38%	0.94%	1.10
Black-eyed Susan	*Rudbeckia hirta*	0.25	0.96%	7.24%	8.45
Compass Plant	*Silphium laciniatum*	0.10	0.38%	0.02%	0.02
Stiff Goldenrod	*Solidago rigida*	0.06	0.23%	0.77%	0.90
Smooth Blue Aster	*Symphyotrichum laeve*	0.05	0.19%	0.87%	1.01
New England Aster	*Symphyotrichum novae-angliae*	0.05	0.19%	1.02%	1.19
Smooth Wild Rose	*Rosa blanda*	0.06	0.23%	0.05%	0.06
Tall Meadow Rue	*Thalictrum dasycarpum*	0.06	0.23%	0.38%	0.44
Blue Vervain	*Verbena hastata*	0.05	0.19%	1.46%	1.71
Culver's Root	*Veronicastrum virginicum*	0.03	0.12%	7.56%	8.82
Golden Alexanders	*Zizia aurea*	0.08	0.31%	0.28%	0.32
	Forbs Subtotal	**3.00**	**11.50%**	**32.95%**	**38.44**
	Total	**26.00**	**100%**	**100%**	**116.67**

BASIN BOTTOM: LIVE PLUG SCHEDULE:

Plug Spacing:	Scientific Name	Common Name	Size	Root
24" On-Center	Bolboschoenus fluviatius	River Bullrush	FLAT	PLUG
(Provide a random and equal mixture of the plants listed)	Calamagrostis canadensis	Blue Joint Grass	FLAT	PLUG
	Carex pellita	Wooley Sedge	FLAT	PLUG
	Carex bebbi	Bebb's Sedge	FLAT	PLUG
	Carex vulpinoidea	Fox Sedge	FLAT	PLUG
	Carex comosa	Bottle Brush Sedge	FLAT	PLUG
	Carex lacustris	Lake Sedge	FLAT	PLUG
	Carex stricta	Tussock Sedge	FLAT	PLUG
	Juncus effusus	Common Rush	FLAT	PLUG
	Scirpus atrovirens	Green Bulrush	FLAT	PLUG
	Scirpus cyperinus	Woolgrass	FLAT	PLUG
	Spartina pectinata	Cord Grass	FLAT	PLUG

* Contractor is to evenly distribute the allocated amount of prairie plugs throughout the basin bottom areas located within the site accordingly.

811 Know what's below. Call before you dig.

CONTRACTOR(S) ARE RESPONSIBLE FOR OBTAINING UTILITY LOCATES, INCLUDE PRIVATE UTILITIES SUCH AS PHONE AND CABLE. CALL NO LESS THAN 48 HOURS IN ADVANCE.

NEW LAKE ELMO ELEMENTARY SCHOOL

Stillwater Area Public Schools ISD #834
1875 Greeley Street South
Stillwater, MN 55082

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

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

CALYX DESIGN GROUP
Landscape Architecture Planning
475 Cleveland Avenue N. | Suite 101A
Saint Paul, MN 55104
651.788.9018 | calyxdesigngroup.com

© 2024 CALYX Design Group, LLC. All rights reserved.

I hereby certify that this plan, specifications 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.

Benjamin D. Hartberg, PLA

Date: xx.xx.xxxx Lic. No.: 48084

Revisions		
Description	Date	Num

Comm: **12236128**
Date: **08-23-2024**
Drawn: **HL**
Check: **BH**

North

LANDSCAPE DETAILS

L2.002

X:\Projects\2024 Projects\24-127 Lake Elmo Elementary School, Lake Elmo, MN\24127_LANDSCAPE_24x36 City Submittal_08-23-2024.dwg

MN

Landscape Notes and Requirements:

1. Tree saucer for individual trees outside of a plant bed to be four inches (4") depth Western Red Cedar wood mulch. Install per tree planting detail. Do not place mulch against tree trunk. Remove wire and burlap from top third of root ball before final soil back-fill and mulch. Dyed or Colorized mulch is strictly prohibited.

2. Refer to civil plan sheets for grading, drainage, site dimensions, survey, tree removal, proposed utilities & erosion control.

3. 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. Plant material shall be delivered as specified.

4. Plan takes precedence over plant schedule if discrepancies in quantities exist.

5. All proposed plants shall be located and staked as shown. Install 6" diameter perforated white PVC trunk guards on all new deciduous trees by November 1st.

6. Adjustment in location of proposed plant material may be needed in field. Should an adjustment be required, the client will provide field approval. Significant changes may require city review and approval.

7. The project landscape contractor shall be held responsible for watering and properly handling all plant materials brought on the site both before and after installation. Schedule plant deliveries to coincide with expected installation time within 36 hours.

8. All plant materials shall be fertilized upon installation as specified.

9. The landscape contractor shall provide the owner with a watering schedule appropriate to the project site conditions and to plant material growth requirements.

10. If the landscape contractor is concerned or perceives any deficiencies in the plant selections, soil conditions, drainage or any other site condition that might negatively affect plant establishment, survival or guarantee, they must bring these deficiencies to the attention of the landscape architect & client prior to bid submission. Plant bed drainage concerns during plant installation shall be brought to the attention of the Owner and General Contractor immediately.

11. Contractor shall establish to his/ her satisfaction that soil and compaction conditions are adequate to allow for proper drainage at and around the building site.

12. Contractor is responsible for ongoing maintenance of all newly installed material, per specifications. 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 limited to, pruning, fertilization and disease/pest control.

13. Warranty: The contractor shall guarantee newly planted material through ONE calendar year from the date of written owner acceptance. Plants that exhibit more than 50% die-back damage shall be replaced at no additional cost to the owner. The contractor shall also provide PVC trunk guards on deciduous trees. Prune dead wood at 11 month warranty review period - use wound paint on trees.

14. This layout plan constitutes our understanding of the landscape requirements listed in the ordinance. Changes and modifications may be requested by the city based on applicant information, public input, council decisions, etc.

15. The landscape contractor shall be responsible for obtaining any permits and coordinating inspections as required throughout the work process.

16. Plant size & species substitutions must be approved in writing prior to acceptance in the field.

17. Irrigation: Refer to irrigation performance plan and specifications

18. Edger to be 16 GA Plated Finish Perforated Edger, Coyote or approved Equal. Stake every 18" minimum. Submit sample for approval.

19. Landscape Contractor is responsible for coordination with the General Contractor, to protect the new improvements on and off-site during landscape work activities. Report any damage to the General Contractor immediately.

20. Unless otherwise noted/indicated, all landscape beds to be 4" depth of Western Red Cedar wood mulch over weed mat. Submit mulch sample for approval.

21. All planting, seeding, and sodded areas shall be prepared prior to installation activities with a harley power box rake or equal to provide a firm planting bed free of stones, sticks, construction debris, etc.

22. Turf Sodding and Seeding activity shall conform to all rules and regulations as established in the MnDOT Seeding Manual, 2014 edition, for turf bed preparation, installation, maintenance, acceptability, and warranty. An acceptable stand of seeded turf is lush, full, and weed-free. See specifications for maintenance requirements.

23. The Landscape Contractor shall furnish samples of all landscape materials for approval prior to installation.

24. The Landscape Contractor shall clear and grub the underbrush from within the work limits to remove dead branches, leaves, trash, weeds and foreign materials.

25. The landscape contractor shall contact Gopher State One Call no less than 48 hours before digging for field utility locations.

26. The landscape contractor shall be responsible for the removal of erosion control measures once vegetation has been established to the satisfaction of the municipal staff. This includes silt curtain fencing and sediment logs placed in the landscape.

27. The landscape contractor shall be responsible for visiting the site to become familiar with the conditions prior to bidding and installation. Coordinate with the general contractors on matters such as fine grading, landscaped area conditions, staging areas, irrigation connection to building, etc.

28. See Site and Civil plans for additional information regarding the project, including infiltration area soils and sub-surface drainage requirements and performance.

29. Topsoil Requirements: See Specifications

30. Landscape contractor must prove the open sub-grade of all planting areas after their excavation is capable of infiltrating a minimum requirement of 1/4-inch of water per hour prior to installation of plant materials, topsoil, irrigation, weed mat, and mulch. Planting areas not capable of meeting this requirement shall have 4" diameter X 48" depth holes augured every 36" on-center and filled with MnDOT Free-Draining Coarse Filter Aggregate. Re-test sub-grade percolation for compliance to infiltration minimum requirement.

31. Landscape contractor to provide nursery pull list (bill of lading) including plant species and sizes shipped to the site. Additionally, the landscape contractor shall provide nursery stock traceability, proving none of the materials provided contain or are genetic strains of the neonicotinoid family including acetamiprid, clothianidin, imidacloprid, nitenpyram, nithiazine, thiacloprid and thiamethoxam.

811 Know what's below. Call before you dig.
CONTRACTOR(S) ARE RESPONSIBLE FOR OBTAINING UTILITY LOCATES, INCLUDE PRIVATE UTILITIES SUCH AS PHONE AND CABLE. CALL NO LESS THAN 48 HOURS IN ADVANCE.

X:\Projects\2024 Projects\24-127 Lake Elmo Elementary School, Lake Elmo, MN\24127_LANDSCAPE_2A\06 City Submittal_08-23-2024.dwg

NEW LAKE ELMO ELEMENTARY SCHOOL

Stillwater Area Public Schools ISD #834
1875 Greeley Street South
Stillwater, MN 55082

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

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

CALYX DESIGN GROUP
Landscape Architecture Planning
475 Cleveland Avenue N. | Suite 101A
Saint Paul, MN 55104
651.788.9018 | calyxdesigngroup.com
© 2024 CALYX Design Group, LLC. All rights reserved.

I hereby certify that this plan, specifications 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.

Benjamin D. Hartberg, PLA
Date: xx.xx.xxxx Lic. No.: 48084

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: HL
Check: BH
North

LANDSCAPE DETAILS

L2.003

MN

LANDOWNER PLANTED TREE

NATURALLY OCCURRING TREE

TagID	Common Name	Botanical Name	Caliper	Condition	Significant?	Remove?	Notes:
1	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
2	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
3	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
4	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
5	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
6	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
7	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
8	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
9	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
10	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
11	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
12	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
13	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
14	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
15	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
16	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
17	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
18	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
19	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
20	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
21	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
22	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
23	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
24	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
25	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
26	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
27	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
28	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
29	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
30	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
31	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
32	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
33	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
34	RED PINE	PINUS RESINOSA	12	GOOD	YES	YES	
35	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
36	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
37	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
38	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
39	RED PINE	PINUS RESINOSA	12	GOOD	YES	YES	
40	RED PINE	PINUS RESINOSA	12	GOOD	YES	YES	
41	RED PINE	PINUS RESINOSA	12	GOOD	YES	YES	
42	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
43	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
44	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
45	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
46	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
47	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
48	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
49	RED PINE	PINUS RESINOSA	12	GOOD	YES	YES	
50	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
51	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
52	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
53	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
54	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
55	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
56	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
57	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
58	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
59	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
60	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
61	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
62	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
63	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
64	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
65	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
66	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
67	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
68	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
69	RED PINE	PINUS RESINOSA	20	GOOD	YES	YES	2-LEADERS 12 & 9
70	RED PINE	PINUS RESINOSA	12	GOOD	YES	YES	
71	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
72	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
73	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
74	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
75	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
76	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
77	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
78	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
79	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
80	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
81	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
82	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
83	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
84	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
85	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
86	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
87	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
88	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
89	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
90	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
91	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
92	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
93	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
94	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
95	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
96	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
97	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
98	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
99	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
100	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
101	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
102	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
103	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
104	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
105	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
106	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
107	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
108	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
109	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
110	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
111	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
112	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
113	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
114	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
115	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
116	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
117	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
118	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
119	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
120	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
121	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
122	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
123	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
124	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
125	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
126	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
127	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
128	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
129	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
130	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
131	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
132	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
133	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
134	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
135	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
136	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
137	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
138	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
139	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
140	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
141	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
142	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
143	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
144	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
145	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
146	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
147	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
148	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
149	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
150	RED PINE	PINUS RESINOSA	12	GOOD	YES	YES	
151	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
152	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
153	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
154	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
155	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
156	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
157	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
158	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
159	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
160	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
161	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
162	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
163	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
164	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
165	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
166	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
167	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
168	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
169	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
170	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
171	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
172	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
173	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
174	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
175	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
176	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
177	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
178	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
179	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
180	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
181	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
182	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
183	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
184	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
185	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
186	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
187	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
188	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
189	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
190	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
191	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
192	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
193	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
194	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
195	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
196	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
197	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
198	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
199	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
200	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
201	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
202	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
203	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
204	RED PINE	PINUS RESINOSA	12	GOOD	YES	YES	
205	RED PINE	PINUS RESINOSA	12	GOOD	YES	YES	
206	RED PINE	PINUS RESINOSA	13	GOOD	YES	YES	
207	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
208	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
209	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
210	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
211	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
212	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
213	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
214	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
215	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
216	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
217	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
218	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
219	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
220	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
221	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
222	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
223	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
224	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
225	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
226	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
227	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
228	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
229	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
230	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
231	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
232	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
233	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
234	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
235	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
236	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
237	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
238	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
239	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
240	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
241	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
242	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
243	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
244	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
245	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
246	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
247	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
248	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
249	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
250	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
251	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
252	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
253	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
254	BLACK CHERRY	PRUNUS SEROTINA	10	GOOD	YES	YES	
255	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
256	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
257	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
258	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
259	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
260	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
261	RED PINE	PINUS RESINOSA	13	GOOD	YES	YES	
262	RED PINE	PINUS RESINOSA	12	GOOD	YES	YES	
263	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
264	RED PINE	PINUS RESINOSA	12	GOOD	YES	YES	
265	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
266	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
267	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
268	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
269	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
270	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
271	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
272	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
273	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
274	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
275	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
276	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
277	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
278	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
279	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
280	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
281	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
282	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
283	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
284	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
285	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
286	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
287	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
288	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
289	SIBERIAN ELM	ULMUS PUMILA	14	GOOD	NO	YES	
290	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
291	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
292	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
293	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
294	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
295	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
296	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
297	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
298	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
299	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
300	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	

X:\Projects\2024 Projects\024-127 Lake Elmo Elementary School, Lake Elmo, MN\24127_LA\DSCAPE_24x36 City Submittal_08-23-2024.dwg

NEW LAKE ELMO ELEMENTARY SCHOOL

Stillwater Area Public Schools ISD #834
1875 Greeley Street South
Stillwater, MN 55082

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

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

CALYX DESIGN GROUP
Landscape Architecture
Planning
475 Cleveland Avenue N. | Suite 101A
Saint Paul, MN 55104
651.788.9018 | calyxdesigngroup.com

© 2024 CALYX Design Group, LLC. All rights reserved.

I hereby certify that this plan, specifications 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.

Benjamin D. Hartberg, PLA

Date: xx.xx.xxxx Lic. No.: 48084

Revisions

Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: HL
Check: BH

North

TREE PRESERVATION & MITIGATION SCHEDULES

L3.001

MN

LANDOWNER PLANTED TREE

NATURALLY OCCURRING TREE

301	BOXELDER	*ACERNEGUNDO*	30	FAIR	NO	YES	
302	SIBERIAN ELM	*ULMUS PUMILA*	12	FAIR	NO	YES	
303	SIBERIAN ELM	*ULMUS PUMILA*	13	FAIR	NO	YES	
304	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
305	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
306	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
307	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
308	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
309	RED PINE	*PINUS RESINOSA*	11	GOOD	YES	YES	
310	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
311	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
312	RED PINE	*PINUS RESINOSA*	11	GOOD	YES	YES	
313	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
314	JACK PINE	*PINUS BANKSIANA*	8	GOOD	YES	YES	
315	JACK PINE	*PINUS BANKSIANA*	10	GOOD	YES	YES	
316	SCOTCH PINE	*PINUS SYLVESTRIS*	13	GOOD	YES	YES	
317	SCOTCH PINE	*PINUS SYLVESTRIS*	11	GOOD	YES	YES	
318	SIBERIAN ELM	*ULMUS PUMILA*	12	FAIR	NO	YES	
319	JACK PINE	*PINUS BANKSIANA*	9	GOOD	YES	YES	
320	SCOTCH PINE	*PINUS SYLVESTRIS*	8	FAIR	YES	YES	
321	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	NO	
322	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	NO	
323	BLUE SPRUCE	*PICEA PUNGENS*	12	GOOD	YES	NO	
324	BLUE SPRUCE	*PICEA PUNGENS*	13	GOOD	YES	NO	
325	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	NO	
326	BLUE SPRUCE	*PICEA PUNGENS*	14	GOOD	YES	NO	
327	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	NO	
328	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	NO	
329	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	NO	
330	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	NO	
331	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	NO	
332	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	NO	
333	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	NO	
334	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	NO	
335	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	NO	
336	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	NO	
337	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	NO	
338	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	NO	
339	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	NO	
340	BLUE SPRUCE	*PICEA PUNGENS*	11	GOOD	YES	NO	
341	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
342	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
343	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	YES	
344	BLUE SPRUCE	*PICEA PUNGENS*	12	GOOD	YES	YES	
345	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	YES	
346	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	YES	
347	BLUE SPRUCE	*PICEA PUNGENS*	12	GOOD	YES	YES	
348	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	YES	
349	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	YES	
350	BLUE SPRUCE	*PICEA PUNGENS*	11	GOOD	YES	YES	
351	BLUE SPRUCE	*PICEA PUNGENS*	11	GOOD	YES	YES	
352	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	YES	
353	BLUE SPRUCE	*PICEA PUNGENS*	11	GOOD	YES	YES	
354	BLUE SPRUCE	*PICEA PUNGENS*	11	GOOD	YES	YES	
355	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
356	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	YES	
357	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
358	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	YES	
359	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	YES	
360	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	YES	
361	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
362	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
363	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	YES	
364	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	YES	
365	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	YES	
366	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
367	BLUE SPRUCE	*PICEA PUNGENS*	11	GOOD	YES	YES	
368	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	YES	
369	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	YES	
370	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	YES	
371	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
372	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	YES	
373	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
374	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
375	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	YES	
376	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
377	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	YES	
378	BLUE SPRUCE	*PICEA PUNGENS*	11	GOOD	YES	YES	
379	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
380	BLUE SPRUCE	*PICEA PUNGENS*	11	GOOD	YES	YES	
381	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	YES	
382	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	YES	
383	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	YES	
384	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
385	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	YES	
386	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	YES	
387	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	YES	
388	BLUE SPRUCE	*PICEA PUNGENS*	11	GOOD	YES	NO	
389	BLUE SPRUCE	*PICEA PUNGENS*	11	GOOD	YES	NO	
390	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	NO	
391	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	NO	
392	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	NO	
393	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	NO	
394	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	NO	
395	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	NO	
396	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	NO	
397	BLUE SPRUCE	*PICEA PUNGENS*	12	GOOD	YES	NO	
398	BLUE SPRUCE	*PICEA PUNGENS*	12	GOOD	YES	NO	
399	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	NO	
400	BLUE SPRUCE	*PICEA PUNGENS*	11	GOOD	YES	NO	
401	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	NO	
402	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	NO	
403	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	NO	
404	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	NO	
405	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	NO	
406	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
407	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
408	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	YES	
409	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
410	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
411	BLUE SPRUCE	*PICEA PUNGENS*	11	GOOD	YES	YES	
412	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	YES	
413	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	YES	
414	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	YES	
415	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
416	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	YES	
417	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	YES	
418	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
419	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	YES	
420	BLUE SPRUCE	*PICEA PUNGENS*	12	GOOD	YES	YES	
421	BLUE SPRUCE	*PICEA PUNGENS*	11	GOOD	YES	YES	
422	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	YES	
423	BLUE SPRUCE	*PICEA PUNGENS*	11	GOOD	YES	YES	
424	BLUE SPRUCE	*PICEA PUNGENS*	12	GOOD	YES	YES	
425	BLUE SPRUCE	*PICEA PUNGENS*	13	GOOD	YES	YES	
426	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
427	BLUE SPRUCE	*PICEA PUNGENS*	13	GOOD	YES	YES	
428	BLUE SPRUCE	*PICEA PUNGENS*	11	GOOD	YES	YES	
429	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	YES	
430	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
431	BLUE SPRUCE	*PICEA PUNGENS*	12	GOOD	YES	YES	
432	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
433	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
434	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	YES	
435	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
436	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
437	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	YES	
438	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
439	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	YES	
440	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	YES	
441	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	YES	
442	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
443	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
444	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	YES	
445	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	YES	
446	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
447	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
448	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
449	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	NO	
450	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	NO	
451	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	NO	
452	BLUE SPRUCE	*PICEA PUNGENS*	11	GOOD	YES	NO	
453	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	NO	
454	BLUE SPRUCE	*PICEA PUNGENS*	11	GOOD	YES	YES	
455	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	NO	
456	BLUE SPRUCE	*PICEA PUNGENS*	11	GOOD	YES	NO	
457	BLUE SPRUCE	*PICEA PUNGENS*	11	GOOD	YES	NO	
458	BLUE SPRUCE	*PICEA PUNGENS*	13	GOOD	YES	YES	
459	BLUE SPRUCE	*PICEA PUNGENS*	13	GOOD	YES	YES	
460	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	YES	
461	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	YES	
462	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
463	BLUE SPRUCE	*PICEA PUNGENS*	11	GOOD	YES	YES	
464	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	YES	
465	BLUE SPRUCE	*PICEA PUNGENS*	11	GOOD	YES	YES	
466	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	YES	
467	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	YES	
468	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
469	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	YES	
470	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	YES	
471	BLUE SPRUCE	*PICEA PUNGENS*	9	GOOD	YES	YES	
472	BLUE SPRUCE	*PICEA PUNGENS*	12	GOOD	YES	YES	
473	BLUE SPRUCE	*PICEA PUNGENS*	12	GOOD	YES	YES	
474	BLUE SPRUCE	*PICEA PUNGENS*	13	GOOD	YES	YES	
475	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	YES	
476	BLUE SPRUCE	*PICEA PUNGENS*	12	GOOD	YES	YES	
477	BLUE SPRUCE	*PICEA PUNGENS*	12	GOOD	YES	YES	
478	BLUE SPRUCE	*PICEA PUNGENS*	12	GOOD	YES	YES	
479	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	YES	
480	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	YES	
481	BLUE SPRUCE	*PICEA PUNGENS*	11	GOOD	YES	YES	
482	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
483	BLUE SPRUCE	*PICEA PUNGENS*	12	GOOD	YES	YES	
484	BLUE SPRUCE	*PICEA PUNGENS*	10	GOOD	YES	YES	
485	BLUE SPRUCE	*PICEA PUNGENS*	8	GOOD	YES	YES	
486	RED PINE	*PINUS RESINOSA*	11	GOOD	YES	YES	
487	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
488	RED PINE	*PINUS RESINOSA*	11	GOOD	YES	YES	
489	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
490	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
491	RED PINE	*PINUS RESINOSA*	11	GOOD	YES	YES	
492	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
493	RED PINE	*PINUS RESINOSA*	11	GOOD	YES	YES	
494	RED PINE	*PINUS RESINOSA*	12	GOOD	YES	YES	
495	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
496	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
497	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
498	RED PINE	*PINUS RESINOSA*	11	GOOD	YES	YES	
499	RED PINE	*PINUS RESINOSA*	11	GOOD	YES	YES	
500	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
501	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
502	RED PINE	*PINUS RESINOSA*	11	GOOD	YES	YES	
503	RED PINE	*PINUS RESINOSA*	11	GOOD	YES	YES	
504	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
505	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
506	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
507	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
508	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
509	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
510	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
511	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
512	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
513	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
514	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
515	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
516	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
517	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
518	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
519	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
520	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
521	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
522	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
523	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
524	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
525	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
526	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
527	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
528	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
529	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
530	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
531	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
532	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
533	AMER ELM	*ULMUS AMERICANA*	28	FAIR	YES	YES	
534	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
535	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
536	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
537	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
538	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
539	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
540	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
541	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
542	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
543	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
544	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
545	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
546	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
547	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
548	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
549	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
550	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
551	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
552	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
553	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
554	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
555	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
556	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
557	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
558	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
559	JACK PINE	*PINUS BANKSIANA*	12	GOOD	YES	YES	
560	RED PINE	*PINUS RESINOSA*	12	GOOD	YES	YES	
561	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
562	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
563	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
564	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
565	RED PINE	*PINUS RESINOSA*	11	GOOD	YES	YES	
566	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
567	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
568	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
569	RED PINE	*PINUS RESINOSA*	11	GOOD	YES	YES	
570	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
571	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
572	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
573	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
574	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
575	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
576	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
577	APPLE TREE	*MALUS SSP*	11	FAIR	NO	YES	
578	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
579	RED PINE	*PINUS RESINOSA*	11	GOOD	YES	YES	
580	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
581	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
582	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
583	RED PINE	*PINUS RESINOSA*	11	GOOD	YES	YES	
584	RED PINE	*PINUS RESINOSA*	11	GOOD	YES	YES	
585	JACK PINE	*PINUS BANKSIANA*	15	GOOD	YES	YES	
586	RED PINE	*PINUS RESINOSA*	11	GOOD	YES	YES	
587	RED PINE	*PINUS RESINOSA*	11	GOOD	YES	YES	
588	RED PINE	*PINUS RESINOSA*	11	GOOD	YES	YES	
589	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	NO	
590	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
591	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	NO	
592	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	NO	
593	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	NO	
594	RED PINE	*PINUS RESINOSA*	11	GOOD	YES	NO	
595	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	NO	
596	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	NO	
597	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	NO	
598	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	NO	
599	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
600	JACK PINE	*PINUS BANKSIANA*	8	GOOD	YES	YES	

NEW LAKE ELMO ELEMENTARY SCHOOL

Stillwater Area Public Schools ISD #834
1875 Greeley Street South
Stillwater, MN 55082

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

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

CALYX DESIGN GROUP
Landscape Architecture
Planning
475 Cleveland Avenue N. | Suite 101A
Saint Paul, MN 55104
651.788.9018 | calyxdesigngroup.com

© 2024 CALYX Design Group, LLC. All rights reserved.

I hereby certify that this plan, specifications 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.

Benjamin D. Hartberg, PLA

Date: xx.xx.xxxx Lic. No.: 48084

Revisions

Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: HL
Check: BH

North

TREE PRESERVATION & MITIGATION SCHEDULES

L3.002

X:\Projects\2024 Projects\24-127 Lake Elmo Elementary School, Lake Elmo, MN\24127_LANDSCAPE_24-08 City Submittal_08-23-2024.dwg

MN

LANDOWNER PLANTED TREE

NATURALLY OCCURRING TREE

601	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
602	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
603	RED PINE	PINUS RESINOSA	9	GOOD	YES	NO	
604	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
605	RED PINE	PINUS RESINOSA	14	GOOD	YES	NO	
606	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
607	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
608	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
609	RED PINE	PINUS RESINOSA	12	GOOD	YES	NO	
610	BLACK CHERRY	PRUNUS SEROTINA	8	GOOD	YES	NO	
611	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
612	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
613	RED PINE	PINUS RESINOSA	12	GOOD	YES	NO	
614	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
615	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
616	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
617	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
618	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
619	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
620	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
621	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
622	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
623	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
624	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
625	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
626	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
627	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
628	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
629	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
630	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
631	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
632	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
633	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
634	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
635	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
636	RED PINE	PINUS RESINOSA	9	GOOD	YES	NO	
637	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
638	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
639	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
640	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
641	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
642	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
643	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
644	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
645	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
646	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
647	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
648	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
649	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
650	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
651	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
652	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
653	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
654	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
655	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
656	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
657	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
658	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
659	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
660	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
661	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
662	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
663	RED PINE	PINUS RESINOSA	9	GOOD	YES	NO	
664	RED PINE	PINUS RESINOSA	9	GOOD	YES	NO	
665	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
666	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
667	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
668	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
669	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
670	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
671	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
672	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
673	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
674	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
675	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
676	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
677	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
678	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
679	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
680	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
681	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
682	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
683	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
684	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
685	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
686	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
687	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
688	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
689	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
690	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
691	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
692	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
693	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
694	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
695	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
696	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
697	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
698	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
699	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
700	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
701	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
702	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
703	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
704	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
705	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
706	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
707	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
708	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
709	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
710	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
711	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
712	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
713	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
714	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
715	RED PINE	PINUS RESINOSA	18	GOOD	YES	YES	
716	RED PINE	PINUS RESINOSA	12	GOOD	YES	YES	
717	RED PINE	PINUS RESINOSA	12	GOOD	YES	YES	
718	RED PINE	PINUS RESINOSA	12	GOOD	YES	YES	
719	RED PINE	PINUS RESINOSA	14	GOOD	YES	YES	
720	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
721	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
722	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
723	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
724	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
725	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
726	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
727	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
728	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
729	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
730	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
731	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
732	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
733	RED PINE	PINUS RESINOSA	9	GOOD	YES	NO	
734	RED PINE	PINUS RESINOSA	9	GOOD	YES	NO	
735	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
736	RED PINE	PINUS RESINOSA	9	GOOD	YES	NO	
737	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
738	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
739	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
740	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
741	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
742	RED PINE	PINUS RESINOSA	9	GOOD	YES	NO	
743	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
744	RED PINE	PINUS RESINOSA	9	GOOD	YES	NO	
745	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
746	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
747	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
748	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
749	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
750	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
751	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
752	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
753	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
754	RED PINE	PINUS RESINOSA	9	GOOD	YES	NO	
755	RED PINE	PINUS RESINOSA	9	GOOD	YES	NO	
756	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
757	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
758	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
759	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
760	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
761	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
762	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
763	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
764	RED PINE	PINUS RESINOSA	9	GOOD	YES	NO	
765	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
766	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
767	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
768	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
769	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
770	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
771	RED PINE	PINUS RESINOSA	12	GOOD	YES	NO	
772	RED PINE	PINUS RESINOSA	12	GOOD	YES	NO	
773	RED PINE	PINUS RESINOSA	12	GOOD	YES	NO	
774	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
775	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
776	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
777	RED PINE	PINUS RESINOSA	12	GOOD	YES	NO	
778	RED PINE	PINUS RESINOSA	12	GOOD	YES	NO	
779	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
780	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
781	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
782	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
783	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
784	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
785	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
786	RED PINE	PINUS RESINOSA	12	GOOD	YES	NO	
787	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
788	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
789	RED PINE	PINUS RESINOSA	12	GOOD	YES	YES	
790	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
791	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
792	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
793	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
794	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
795	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
796	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
797	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
798	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
799	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
800	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
801	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
802	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
803	RED PINE	PINUS RESINOSA	9	GOOD	YES	NO	
804	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
805	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
806	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
807	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
808	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
809	RED PINE	PINUS RESINOSA	9	GOOD	YES	NO	
810	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
811	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
812	RED PINE	PINUS RESINOSA	9	GOOD	YES	NO	
813	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
814	RED PINE	PINUS RESINOSA	11	GOOD	YES	NO	
815	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
816	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
817	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
818	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
819	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
820	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
821	RED PINE	PINUS RESINOSA	9	GOOD	YES	NO	
822	RED PINE	PINUS RESINOSA	9	GOOD	YES	NO	
823	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
824	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
825	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
826	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
827	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
828	RED PINE	PINUS RESINOSA	9	GOOD	YES	NO	
829	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
830	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
831	RED PINE	PINUS RESINOSA	9	GOOD	YES	NO	
832	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
833	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
834	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
835	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
836	RED PINE	PINUS RESINOSA	9	GOOD	YES	NO	
837	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
838	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
839	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
840	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
841	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
842	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
843	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
844	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
845	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
846	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
847	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
848	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
849	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
850	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
851	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
852	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
853	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
854	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
855	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
856	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
857	RED PINE	PINUS RESINOSA	9	GOOD	YES	NO	
858	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
859	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
860	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
861	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
862	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
863	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
864	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
865	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
866	RED PINE	PINUS RESINOSA	12	GOOD	YES	YES	
867	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
868	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
869	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
870	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
871	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
872	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
873	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
874	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
875	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
876	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
877	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
878	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
879	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
880	RED PINE	PINUS RESINOSA	9	GOOD	YES	NO	
881	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
882	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
883	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
884	RED PINE	PINUS RESINOSA	9	GOOD	YES	NO	
885	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
886	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
887	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
888	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
889	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
890	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
891	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
892	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
893	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
894	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
895	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
896	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	
897	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
898	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
899	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
900	RED PINE	PINUS RESINOSA	8	GOOD	YES	NO	

X:\Projects\2024 Projects\24-127 Lake Elmo Elementary School, Lake Elmo, MN\24127_LANDSCAPE_24x36 City Submittal_08-23-2024.dwg

NEW LAKE ELMO ELEMENTARY SCHOOL

Stillwater Area Public Schools ISD #834
1875 Greeley Street South
Stillwater, MN 55082

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

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

CALYX DESIGN GROUP
Landscape Architecture Planning
475 Cleveland Avenue N. | Suite 101A
Saint Paul, MN 55104
651.788.9018 | calyxdesigngroup.com

© 2024 CALYX Design Group, LLC. All rights reserved.

I hereby certify that this plan, specifications 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.

Benjamin D. Hartberg, PLA

Date: xx.xx.xxxx Lic. No.: 48084

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: HL
Check: BH

North

TREE PRESERVATION & MITIGATION SCHEDULES

L3.003

MN

LANDOWNER PLANTED TREE

NATURALLY OCCURRING TREE

901	REDPINE	PINUSRESINOSA	10	GOOD	YES	NO	
902	REDPINE	PINUSRESINOSA	8	GOOD	YES	NO	
903	REDPINE	PINUSRESINOSA	8	GOOD	YES	NO	
904	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
905	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
906	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
907	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
908	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
909	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
910	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
911	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
912	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
913	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
914	REDPINE	PINUSRESINOSA	12	GOOD	YES	YES	
915	REDPINE	PINUSRESINOSA	11	GOOD	YES	YES	
916	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
917	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
918	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
919	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
920	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
921	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
922	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
923	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
924	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
925	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
926	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
927	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
928	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
929	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
930	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
931	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
932	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
933	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
934	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
935	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
936	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
937	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
938	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
939	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
940	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
941	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
942	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
943	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
944	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
945	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
946	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
947	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
948	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
949	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
950	REDPINE	PINUSRESINOSA	11	GOOD	YES	YES	
951	REDPINE	PINUSRESINOSA	11	GOOD	YES	YES	
952	REDPINE	PINUSRESINOSA	11	GOOD	YES	YES	
953	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
954	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
955	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
956	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
957	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
958	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
959	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
960	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
961	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
962	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
963	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
964	SIBERIAN ELM	ULMUSPUMILA	13	GOOD	NO	YES	
965	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
966	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
967	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
968	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
969	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
970	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
971	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
972	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
973	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
974	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
975	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
976	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
977	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
978	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
979	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
980	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
981	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
982	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
983	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
984	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
985	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
986	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
987	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
988	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
989	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
990	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
991	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
992	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
993	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
994	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
995	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
996	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
997	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
998	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
999	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1000	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1001	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1002	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1003	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1004	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1005	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1006	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1007	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1008	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1009	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1010	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1011	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1012	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1013	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1014	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1015	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1016	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1017	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1018	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1019	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1020	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1021	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1022	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1023	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1024	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1025	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1026	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1027	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1028	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1029	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1030	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1031	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1032	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1033	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1034	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1035	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1036	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1037	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1038	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1039	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1040	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1041	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1042	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1043	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1044	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1045	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1046	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1047	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1048	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1049	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1050	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1051	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1052	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1053	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1054	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1055	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1056	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1057	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1058	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1059	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1060	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1061	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1062	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1063	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1064	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1065	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1066	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1067	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1068	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1069	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1070	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1071	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1072	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1073	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1074	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1075	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1076	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1077	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1078	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1079	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1080	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1081	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1082	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1083	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1084	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1085	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1086	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1087	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1088	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1089	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1090	REDPINE	PINUSRESINOSA	11	GOOD	YES	YES	
1091	REDPINE	PINUSRESINOSA	11	GOOD	YES	YES	
1092	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1093	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1094	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1095	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1096	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1097	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1098	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1099	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1100	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1101	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1102	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1103	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1104	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1105	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1106	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1107	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1108	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1109	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1110	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1111	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1112	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1113	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1114	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1115	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1116	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1117	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1118	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1119	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1120	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1121	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1122	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1123	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1124	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1125	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1126	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1127	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1128	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1129	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1130	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1131	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1132	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1133	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1134	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1135	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1136	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1137	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1138	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1139	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1140	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1141	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1142	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1143	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1144	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1145	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1146	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1147	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1148	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1149	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1150	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1151	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1152	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1153	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1154	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1155	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1156	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1157	REDPINE	PINUSRESINOSA	11	GOOD	YES	YES	
1158	REDPINE	PINUSRESINOSA	11	GOOD	YES	YES	
1159	REDPINE	PINUSRESINOSA	11	GOOD	YES	YES	
1160	REDPINE	PINUSRESINOSA	11	GOOD	YES	YES	
1161	REDPINE	PINUSRESINOSA	11	GOOD	YES	YES	
1162	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1163	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1164	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1165	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1166	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1167	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1168	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1169	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1170	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1171	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1172	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1173	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1174	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1175	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1176	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1177	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1178	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1179	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1180	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1181	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1182	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1183	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1184	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1185	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1186	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1187	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1188	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1189	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1190	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1191	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1192	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1193	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1194	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1195	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1196	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1197	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1198	REDPINE	PINUSRESINOSA	11	GOOD	YES	YES	
1199	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1200	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	

NEW LAKE ELMO ELEMENTARY SCHOOL

Stillwater Area Public Schools ISD #834
1875 Greeley Street South
Stillwater, MN 55082

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

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

CALYX DESIGN GROUP
Landscape Architecture
Planning
475 Cleveland Avenue N. | Suite 101A
Saint Paul, MN 55104
651.788.9018 | calyxdesigngroup.com

© 2024 CALYX Design Group, LLC. All rights reserved.

I hereby certify that this plan, specifications 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.

Benjamin D. Hartberg, PLA

Date: xx.xx.xxxx Lic. No.: 48084

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: HL
Check: BH

North

TREE PRESERVATION & MITIGATION SCHEDULES

L3.004

X:\Projects\2024 Projects\24-127 Lake Elmo Elementary School, Lake Elmo, MN\24127_LANDSCAPE_24-08 City Submittal_08-23-2024.dwg

MN

LANDOWNER PLANTED TREE

NATURALLY OCCURRING TREE

1201	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1202	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1203	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1204	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1205	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1206	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1207	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1208	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1209	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1210	REDPINE	PINUSRESINOSA	11	GOOD	YES	YES	
1211	REDPINE	PINUSRESINOSA	11	GOOD	YES	YES	
1212	REDPINE	PINUSRESINOSA	11	GOOD	YES	YES	
1213	REDPINE	PINUSRESINOSA	11	GOOD	YES	YES	
1214	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1215	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1216	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1217	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1218	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1219	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1220	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1221	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1222	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1223	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1224	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1225	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1226	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1227	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1228	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1229	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1230	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1231	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1232	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1233	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1234	REDPINE	PINUSRESINOSA	11	GOOD	YES	YES	
1235	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1236	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1237	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1238	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1239	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1240	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1241	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1242	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1243	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1244	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1245	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1246	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1247	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1248	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1249	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1250	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1251	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1252	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1253	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1254	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1255	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1256	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1257	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1258	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1259	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1260	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1261	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1262	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1263	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1264	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1265	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1266	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1267	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1268	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1269	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1270	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1271	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1272	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1273	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1274	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1275	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1276	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1277	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1278	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1279	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1280	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1281	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1282	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1283	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1284	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1285	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1286	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1287	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1288	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1289	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1290	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1291	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1292	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1293	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1294	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1295	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1296	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1297	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1298	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1299	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1300	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	

1301	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1302	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1303	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1304	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1305	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1306	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1307	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1308	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1309	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1310	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1311	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1312	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1313	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1314	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1315	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1316	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1317	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1318	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1319	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1320	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1321	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1322	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1323	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1324	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1325	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1326	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1327	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1328	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1329	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1330	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1331	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1332	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1333	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1334	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1335	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1336	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1337	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1338	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1339	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1340	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1341	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1342	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1343	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1344	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1345	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1346	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1347	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1348	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1349	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1350	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1351	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1352	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1353	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1354	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1355	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1356	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1357	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1358	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1359	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1360	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1361	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1362	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1363	REDPINE	PINUSRESINOSA	10	GOOD	YES	YES	
1364	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1365	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1366	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1367	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1368	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1369	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1370	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1371	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1372	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1373	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1374	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1375	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1376	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1377	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1378	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1379	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1380	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1381	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1382	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1383	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1384	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1385	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1386	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1387	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1388	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1389	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1390	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1391	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1392	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1393	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1394	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1395	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1396	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1397	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1398	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1399	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1400	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	

1401	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1402	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1403	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1404	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1405	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1406	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1407	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1408	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1409	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1410	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1411	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1412	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1413	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1414	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1415	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1416	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1417	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1418	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1419	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1420	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1421	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1422	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1423	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1424	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1425	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1426	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1427	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1428	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1429	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1430	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1431	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1432	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1433	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1434	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1435	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1436	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1437	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1438	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1439	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1440	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1441	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1442	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1443	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1444	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1445	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1446	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1447	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1448	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1449	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1450	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1451	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1452	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1453	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1454	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1455	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1456	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1457	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1458	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1459	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1460	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1461	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1462	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1463	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1464	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1465	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1466	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1467	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1468	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1469	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1470	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1471	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1472	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1473	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1474	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1475	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1476	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1477	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1478	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1479	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1480	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1481	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1482	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1483	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1484	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1485	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1486	REDPINE	PINUSRESINOSA	8	GOOD	YES	YES	
1487	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1488	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1489	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1490	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1491	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1492	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1493	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1494	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1495	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1496	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1497	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1498	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1499	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	
1500	REDPINE	PINUSRESINOSA	9	GOOD	YES	YES	

NEW LAKE ELMO ELEMENTARY SCHOOL

Stillwater Area Public Schools ISD #834
1875 Greeley Street South
Stillwater, MN 55082

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

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

CALYX DESIGN GROUP
Landscape Architecture
Planning
475 Cleveland Avenue N. | Suite 101A
Saint Paul, MN 55104
651.788.9018 | calyxdesigngroup.com

© 2024 CALYX Design Group, LLC. All rights reserved.

I hereby certify that this plan, specifications 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.

Benjamin D. Hartberg, PLA

Date: xx.xx.xxxx Lic. No.: 48084

Revisions

Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: HL
Check: BH

North

TREE PRESERVATION & MITIGATION SCHEDULES

L3.005

X:\Projects\2024 Projects\24-127 Lake Elmo Elementary School, Lake Elmo, MN\24127_LANDSCAPE_24-08 City Submittal_08-23-2024.dwg

MN

LANDOWNER PLANTED TREE

NATURALLY OCCURRING TREE

1501	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1502	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1503	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1504	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1505	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1506	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1507	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1508	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1509	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1510	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
1511	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
1512	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1513	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1514	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1515	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1516	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1517	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1518	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1519	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1520	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1521	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1522	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1523	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1524	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1525	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1526	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1527	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1528	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1529	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1530	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1531	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1532	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1533	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1534	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1535	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1536	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1537	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1538	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1539	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1540	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1541	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1542	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1543	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1544	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1545	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1546	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1547	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1548	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1549	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1550	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1551	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1552	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1553	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1554	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
1555	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1556	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1557	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1558	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1559	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1560	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1561	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1562	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1563	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1564	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1565	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1566	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1567	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1568	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1569	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1570	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1571	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1572	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1573	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1574	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1575	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1576	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1577	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1578	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1579	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1580	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1581	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1582	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1583	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1584	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1585	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1586	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1587	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1588	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1589	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1590	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1591	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1592	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1593	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1594	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1595	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1596	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1597	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1598	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1599	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1600	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	

1601	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1602	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1603	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1604	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1605	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1606	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1607	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1608	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1609	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1610	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
1611	RED PINE	PINUS RESINOSA	12	GOOD	YES	YES	
1612	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1613	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1614	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1615	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1616	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1617	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1618	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1619	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1620	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1621	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1622	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1623	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1624	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1625	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1626	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1627	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1628	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1629	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1630	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1631	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1632	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1633	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1634	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
1635	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1636	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1637	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1638	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1639	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1640	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1641	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1642	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1643	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1644	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1645	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1646	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1647	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
1648	RED PINE	PINUS RESINOSA	12	GOOD	YES	YES	
1649	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1650	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1651	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1652	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1653	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1654	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1655	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1656	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1657	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1658	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1659	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1660	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1661	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1662	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1663	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1664	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1665	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1666	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1667	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1668	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1669	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1670	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1671	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1672	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1673	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1674	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1675	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1676	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1677	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1678	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1679	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1680	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1681	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1682	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1683	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1684	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1685	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1686	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1687	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1688	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1689	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1690	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1691	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
1692	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1693	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1694	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1695	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
1696	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
1697	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
1698	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
1699	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1700	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	

1701	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
1702	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1703	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1704	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1705	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1706	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1707	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1708	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1709	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1710	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1711	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
1712	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1713	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1714	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1715	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
1716	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1717	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1718	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
1719	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1720	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1721	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1722	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1723	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1724	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1725	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1726	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1727	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1728	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1729	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1730	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1731	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1732	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1733	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1734	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1735	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1736	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1737	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1738	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
1739	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1740	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1741	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1742	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1743	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1744	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1745	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1746	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1747	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1748	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1749	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1750	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1751	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
1752	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1753	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
1754	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1755	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1756	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
1757	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
1758	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1759	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1760	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1761	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1762	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1763	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1764	QUAKING ASPEN	POPULUS TREMULOIDES	13	GOOD	YES	YES	
1765	QUAKING ASPEN	POPULUS TREMULOIDES	25	FAIR	YES	YES	
1766	QUAKING ASPEN	POPULUS TREMULOIDES	20	FAIR	YES	YES	
1767	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1768	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1769	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1770	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1771	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1772	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1773	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1774	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
1775	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1776	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
1777	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1778	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
1779	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1780	SIBERIAN ELM	ULMUS PUMILA	13	GOOD	NO	YES	
1781	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1782	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1783	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1784	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1785	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1786	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1787	SIBERIAN ELM	ULMUS PUMILA	20	GOOD	NO	YES	
1788	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1789	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1790	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1791	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1792	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1793	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1794	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1795	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1796	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
1797	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
1798	SIBERIAN ELM	ULMUS PUMILA	18	GOOD	NO	YES	
1799	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1800	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	

X:\Projects\2024 Projects\24-127 Lake Elmo Elementary School, Lake Elmo, MN\24127_LANDSCAPE_24-08 City Submittal_08-23-2024.dwg

NEW LAKE ELMO ELEMENTARY SCHOOL

Stillwater Area Public Schools ISD #834
1875 Greeley Street South
Stillwater, MN 55082

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

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

CALYX DESIGN GROUP
Landscape Architecture
Planning
475 Cleveland Avenue N. | Suite 101A
Saint Paul, MN 55104
651.788.9018 | calyxdesigngroup.com

© 2024 CALYX Design Group, LLC. All rights reserved.

I hereby certify that this plan, specifications 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.

Benjamin D. Hartberg, PLA

Date: xx.xx.xxxx Lic. No.: 48084

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: HL
Check: BH

North

TREE PRESERVATION & MITIGATION SCHEDULES

L3.006

MN

LANDOWNER PLANTED TREE

NATURALLY OCCURRING TREE

1801	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1802	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1803	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1804	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1805	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1806	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1807	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1808	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1809	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1810	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1811	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1812	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1813	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
1814	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
1815	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
1816	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1817	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1818	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1819	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1820	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1821	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1822	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1823	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1824	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1825	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1826	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1827	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1828	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1829	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1830	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1831	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1832	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1833	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1834	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1835	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1836	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1837	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1838	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1839	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1840	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1841	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1842	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1843	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1844	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1845	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1846	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1847	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1848	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1849	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1850	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1851	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1852	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1853	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1854	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1855	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1856	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1857	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1858	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1859	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1860	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1861	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1862	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1863	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1864	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1865	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1866	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1867	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1868	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1869	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
1870	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1871	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1872	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1873	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1874	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1875	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1876	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1877	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1878	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1879	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1880	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1881	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1882	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1883	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1884	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1885	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1886	RED PINE	PINUS RESINOSA	14	GOOD	YES	YES	
1887	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
1888	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1889	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1890	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1891	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1892	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1893	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1894	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1895	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1896	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1897	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1898	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1899	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1900	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1901	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1902	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1903	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1904	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1905	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1906	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1907	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1908	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1909	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1910	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1911	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1912	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1913	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1914	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1915	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1916	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1917	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1918	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1919	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1920	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1921	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1922	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1923	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1924	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1925	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1926	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1927	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1928	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1929	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1930	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1931	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1932	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1933	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1934	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1935	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1936	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1937	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1938	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1939	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1940	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1941	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1942	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1943	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1944	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1945	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1946	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1947	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1948	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1949	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1950	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1951	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1952	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1953	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1954	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
1955	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1956	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1957	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1958	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1959	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1960	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1961	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1962	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1963	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1964	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1965	RED PINE	PINUS RESINOSA	13	GOOD	YES	YES	
1966	RED PINE	PINUS RESINOSA	10	GOOD	YES	YES	
1967	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1968	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1969	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1970	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
1971	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1972	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1973	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1974	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1975	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1976	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1977	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1978	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1979	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1980	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1981	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1982	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1983	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1984	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1985	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1986	RED PINE	PINUS RESINOSA	9	GOOD	YES	YES	
1987	RED PINE	PINUS RESINOSA	16	GOOD	YES	YES	
1988	RED PINE	PINUS RESINOSA	16	GOOD	YES	YES	
1989	RED PINE	PINUS RESINOSA	14	GOOD	YES	YES	
1990	RED PINE	PINUS RESINOSA	17	GOOD	YES	YES	
1991	RED PINE	PINUS RESINOSA	17	GOOD	YES	YES	
1992	RED PINE	PINUS RESINOSA	14	GOOD	YES	YES	
1993	RED PINE	PINUS RESINOSA	14	GOOD	YES	YES	
1994	RED PINE	PINUS RESINOSA	12	GOOD	YES	YES	
1995	RED PINE	PINUS RESINOSA	12	GOOD	YES	YES	
1996	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1997	RED PINE	PINUS RESINOSA	8	GOOD	YES	YES	
1998	RED PINE	PINUS RESINOSA	10	GOOD	YES	NO	
1999	RED PINE	PINUS RESINOSA	9	GOOD	YES	NO	
2000	RED PINE	PINUS RESINOSA	9	GOOD	YES	NO	
2001	RED PINE	PINUS RESINOSA	18	GOOD	YES	YES	
2002	RED PINE	PINUS RESINOSA	15	GOOD	YES	YES	
2003	SIBERIAN ELM	ULMUS PUMILA	12	GOOD	NO	YES	
2004	RED PINE	PINUS RESINOSA	11	GOOD	YES	YES	
2005	RED PINE	PINUS RESINOSA	14	GOOD	YES	YES	
2006	RED PINE	PINUS RESINOSA	14	GOOD	YES	YES	
2007	RED PINE	PINUS RESINOSA	14	GOOD	YES	NO	
2008	RED PINE	PINUS RESINOSA	14	GOOD	YES	NO	
2009	AMUR MAPLE	ACER GINNALA	24	GOOD	NO	YES	
2010	AMUR MAPLE	ACER GINNALA	26	GOOD	NO	YES	
2011	AMUR MAPLE	ACER GINNALA	26	GOOD	NO	YES	
2012	AMUR MAPLE	ACER GINNALA	22	GOOD	NO	YES	
2013	AMUR MAPLE	ACER GINNALA	28	GOOD	NO	YES	
2014	AMUR MAPLE	ACER GINNALA	40	GOOD	NO	YES	
2015	RED PINE	PINUS RESINOSA	9	GOOD	YES	NO	
2016	RED PINE	PINUS RESINOSA	13	GOOD	YES	NO	
2017	SIBERIAN ELM	ULMUS PUMILA	20	GOOD	NO	NO	
2018	SIBERIAN ELM	ULMUS PUMILA	12	GOOD	YES	NO	
2019	BLACK CHERRY	PRUNUS SEROTINA	12	GOOD	YES	NO	
2020	SIBERIAN ELM	ULMUS PUMILA	12	GOOD	NO	NO	
2021	GREEN ASH	FRAXINUS PENNSYLVANICA	16	GOOD	YES	NO	
2022	RED PINE	PINUS RESINOSA	12	GOOD	YES	YES	
2023	RED PINE	PINUS RESINOSA	12	GOOD	YES	YES	
2024	EASTERN COTTONWOOD	POPULUS DELTOIDES	44	GOOD	NO	YES	
2025	SIBERIAN ELM	ULMUS PUMILA	20	GOOD	NO	YES	
2026	SIBERIAN ELM	ULMUS PUMILA	20	GOOD	NO	NO	
2027	SIBERIAN ELM	ULMUS PUMILA	20	GOOD	NO	NO	
2028	SIBERIAN ELM	ULMUS PUMILA	38	GOOD	NO	NO	
2029	SIBERIAN ELM	ULMUS PUMILA	20	GOOD	NO	YES	
2030	SIBERIAN ELM	ULMUS PUMILA	22	GOOD	NO	YES	
2031	SIBERIAN ELM	ULMUS PUMILA	34	GOOD	NO	YES	
2032	SIBERIAN ELM	ULMUS PUMILA	14	GOOD	NO	YES	
2033	SIBERIAN ELM	ULMUS PUMILA	27	FAIR	NO	YES	
2034	SIBERIAN ELM	ULMUS PUMILA	12	FAIR	NO	YES	
2035	SIBERIAN ELM	ULMUS PUMILA	13	FAIR	NO	YES	
2036	SIBERIAN ELM	ULMUS PUMILA	20	GOOD	NO	YES	
2037	SIBERIAN ELM	ULMUS PUMILA	12	FAIR	NO	YES	
2038	SIBERIAN ELM	ULMUS PUMILA	14	FAIR	NO	YES	
2039	JACK PINE	PINUS BANKSIANA	10	GOOD	YES	YES	
2040	SCOTCH PINE	PINUS SYLVESTRIS	8	GOOD	YES	YES	
2041	SCOTCH PINE	PINUS SYLVESTRIS	11	GOOD	YES	YES	
2042	SCOTCH PINE	PINUS SYLVESTRIS	8	GOOD	YES	YES	
2043	BOXELDER	ACER NEGUNDO	12	FAIR	NO	YES	
2044	SIBERIAN ELM	ULMUS PUMILA	15	FAIR	NO	YES	
2045	SCOTCH PINE	PINUS SYLVESTRIS	15	GOOD	YES	YES	
2046	SCOTCH PINE	PINUS SYLVESTRIS	9	GOOD	YES	YES	
2047	SCOTCH PINE	PINUS SYLVESTRIS	12	GOOD	YES	YES	
2048	SIBERIAN ELM	ULMUS PUMILA	15	GOOD	NO	YES	
2049	SCOTCH PINE	PINUS SYLVESTRIS	13	FAIR	YES	YES	
2050	JACK PINE	PINUS BANKSIANA	8	FAIR	YES	YES	
2051	SCOTCH PINE	PINUS SYLVESTRIS	14	GOOD	YES	YES	
2052	SCOTCH PINE	PINUS SYLVESTRIS	16	GOOD	YES	YES	
2053	SCOTCH PINE	PINUS SYLVESTRIS	12	GOOD	YES	YES	
2054	SCOTCH PINE	PINUS SYLVESTRIS	20	GOOD	YES	YES	2-LEADERS 10 & 10
2055	SCOTCH PINE	PINUS SYLVESTRIS	13	GOOD	YES	YES	
2056	SCOTCH PINE	PINUS SYLVESTRIS	15	GOOD	YES	YES	
2057	SCOTCH PINE	PINUS SYLVESTRIS	9	GOOD	YES	YES	
2058	SCOTCH PINE	PINUS SYLVESTRIS	14	GOOD	YES	YES	
2059	SCOTCH PINE	PINUS SYLVESTRIS	10	GOOD	YES	YES	
2060	SCOTCH PINE	PINUS SYLVESTRIS	9	GOOD	YES	YES	
2061	SCOTCH PINE	PINUS SYLVESTRIS	10	GOOD	YES	YES	
2062	SCOTCH PINE	PINUS SYLVESTRIS	9	GOOD	YES	YES	
2063	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	YES	
2064	SCOTCH PINE	PINUS SYLVESTRIS	11	FAIR	YES	YES	
2065	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	YES	
2066	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	YES	
2067	SCOTCH PINE	PINUS SYLVESTRIS	12	FAIR	YES	YES	
2068	SCOTCH PINE	PINUS SYLVESTRIS	14	FAIR	YES	YES	
2069	SCOTCH PINE	PINUS SYLVESTRIS	14	FAIR	YES	YES	
2070	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	YES	
2071	SCOTCH PINE	PINUS SYLVESTRIS	11	FAIR	YES	YES	
2072	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	YES	
2073	SCOTCH PINE	PINUS SYLVESTRIS	13	FAIR	YES	YES	
2074	NORWAY SPRUCE	PICEA ABIES	11	FAIR	YES	YES	
2075	SCOTCH PINE	PINUS SYLVESTRIS	9	FAIR	YES	YES	
2076	NORWAY SPRUCE	PICEA ABIES	14	GOOD	YES	YES	
2077	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	YES	
2078	NORWAY SPRUCE	PICEA ABIES	12	GOOD	YES	YES	
2079	SCOTCH PINE	PINUS SYLVESTRIS	12	FAIR	YES	YES	
2080	SCOTCH PINE	PINUS SYLVESTRIS	19	FAIR	YES	YES	2-LEADERS 10 & 9
2081	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	YES	
2082	NORWAY SPRUCE	PICEA ABIES	11	GOOD	YES	YES	
2083	NORWAY SPRUCE	PICEA ABIES	9	FAIR	YES	YES	
2084	SCOTCH PINE	PINUS SYLVESTRIS	9	FAIR	YES	YES	
2085	NORWAY SPRUCE	PICEA ABIES	14	GOOD	YES	YES	
2086	NORWAY SPRUCE	PICEA ABIES	13	FAIR	YES	YES	
2087	NORWAY SPRUCE	PICEA ABIES	15	GOOD	YES	YES	
2088	SCOTCH PINE	PINUS SYLVESTRIS	11	FAIR	YES	YES	
2089	SCOTCH PINE	PINUS SYLVESTRIS	9	FAIR	YES	YES	
2090	NORWAY SPRUCE	PICEA ABIES	12	GOOD	YES	YES	
2091	NORWAY SPRUCE	PICEA ABIES	17	FAIR	YES	YES	2-LEADERS 9 & 8
2092	NORWAY SPRUCE	PICEA ABIES	12	FAIR	YES	YES	
2093	NORWAY SPRUCE	PICEA ABIES	13	FAIR	YES	YES	
2094	WHITE SPRUCE	PICEA GLAUCA	11	FAIR	YES	YES	
2095	NORWAY SPRUCE	PICEA ABIES	16	GOOD	YES	YES	
2096	NORWAY SPRUCE	PICEA ABIES	9	FAIR	YES	YES	
2097	SCOTCH PINE	PINUS SYLVESTRIS	16	FAIR	YES	YES	
2098	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	YES	
2099	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	YES	
2100	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	YES	

X:\Projects\2024 Projects\24-127 Lake Elmo Elementary School, Lake Elmo, MN\24127_LANDSCAPE_24-08 City Submittal_08-23-2024.dwg

NEW LAKE ELMO ELEMENTARY SCHOOL

Stillwater Area Public Schools ISD #834
1875 Greeley Street South
Stillwater, MN 55082

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

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

CALYX DESIGN GROUP
Landscape Architecture
Planning
475 Cleveland Avenue N. | Suite 101A
Saint Paul, MN 55104
651.788.9018 | calyxdesigngroup.com

© 2024 CALYX Design Group, LLC. All rights reserved.

I hereby certify that this plan, specifications 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.

Benjamin D. Hartberg, PLA

Date: xx.xx.xxxx Lic. No.: 48084

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: HL
Check: BH

North

TREE PRESERVATION & MITIGATION SCHEDULES

L3.007

MN

LANDOWNER PLANTED TREE

NATURALLY OCCURRING TREE

2101	NORWAY SPRUCE	PICEA ABIES	14	FAIR	YES	YES	
2102	NORWAY SPRUCE	PICEA ABIES	15	FAIR	YES	YES	
2103	NORWAY SPRUCE	PICEA ABIES	14	FAIR	YES	YES	
2104	NORWAY SPRUCE	PICEA ABIES	15	FAIR	YES	YES	
2105	NORWAY SPRUCE	PICEA ABIES	11	FAIR	YES	YES	
2106	NORWAY SPRUCE	PICEA ABIES	11	FAIR	YES	YES	
2107	NORWAY SPRUCE	PICEA ABIES	13	FAIR	YES	YES	
2108	SCOTCH PINE	PINUS SYLVESTRIS	9	FAIR	YES	YES	
2109	NORWAY SPRUCE	PICEA ABIES	16	FAIR	YES	YES	
2110	SCOTCH PINE	PINUS SYLVESTRIS	11	FAIR	YES	YES	
2111	SCOTCH PINE	PINUS SYLVESTRIS	15	FAIR	YES	YES	
2112	NORWAY SPRUCE	PICEA ABIES	13	FAIR	YES	YES	
2113	NORWAY SPRUCE	PICEA ABIES	13	FAIR	YES	YES	
2114	NORWAY SPRUCE	PICEA ABIES	12	FAIR	YES	YES	
2115	NORWAY SPRUCE	PICEA ABIES	11	FAIR	YES	YES	
2116	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	YES	
2117	SCOTCH PINE	PINUS SYLVESTRIS	12	FAIR	YES	YES	
2118	SCOTCH PINE	PINUS SYLVESTRIS	11	FAIR	YES	YES	
2119	SCOTCH PINE	PINUS SYLVESTRIS	11	FAIR	YES	YES	
2120	SCOTCH PINE	PINUS SYLVESTRIS	11	FAIR	YES	YES	
2121	SCOTCH PINE	PINUS SYLVESTRIS	22	FAIR	YES	YES	2-LEADERS 11 & 11
2122	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	YES	
2123	NORWAY SPRUCE	PICEA ABIES	12	FAIR	YES	YES	
2124	NORWAY SPRUCE	PICEA ABIES	12	FAIR	YES	YES	
2125	NORWAY SPRUCE	PICEA ABIES	13	FAIR	YES	YES	
2126	NORWAY SPRUCE	PICEA ABIES	9	FAIR	YES	YES	
2127	NORWAY SPRUCE	PICEA ABIES	8	FAIR	YES	YES	
2128	NORWAY SPRUCE	PICEA ABIES	14	GOOD	YES	YES	
2129	NORWAY SPRUCE	PICEA ABIES	15	GOOD	YES	YES	
2130	NORWAY SPRUCE	PICEA ABIES	14	GOOD	YES	YES	
2131	NORWAY SPRUCE	PICEA ABIES	17	GOOD	YES	YES	
2132	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	YES	
2133	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	YES	
2134	NORWAY SPRUCE	PICEA ABIES	9	FAIR	YES	YES	
2135	SCOTCH PINE	PINUS SYLVESTRIS	16	FAIR	YES	YES	
2136	SCOTCH PINE	PINUS SYLVESTRIS	14	FAIR	YES	YES	
2137	SCOTCH PINE	PINUS SYLVESTRIS	14	FAIR	YES	YES	
2138	SCOTCH PINE	PINUS SYLVESTRIS	9	FAIR	YES	YES	
2139	SCOTCH PINE	PINUS SYLVESTRIS	14	FAIR	YES	YES	
2140	SCOTCH PINE	PINUS SYLVESTRIS	9	FAIR	YES	YES	
2141	SCOTCH PINE	PINUS SYLVESTRIS	13	FAIR	YES	YES	
2142	SCOTCH PINE	PINUS SYLVESTRIS	12	FAIR	YES	YES	
2143	SCOTCH PINE	PINUS SYLVESTRIS	12	FAIR	YES	YES	
2144	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	YES	
2145	SCOTCH PINE	PINUS SYLVESTRIS	12	FAIR	YES	YES	
2146	SCOTCH PINE	PINUS SYLVESTRIS	16	FAIR	YES	YES	2-LEADERS 8 & 8
2147	SCOTCH PINE	PINUS SYLVESTRIS	8	FAIR	YES	YES	
2148	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	YES	
2149	SCOTCH PINE	PINUS SYLVESTRIS	13	FAIR	YES	YES	
2150	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	YES	
2151	SCOTCH PINE	PINUS SYLVESTRIS	11	FAIR	YES	YES	
2152	SCOTCH PINE	PINUS SYLVESTRIS	13	FAIR	YES	YES	
2153	SCOTCH PINE	PINUS SYLVESTRIS	13	FAIR	YES	YES	
2154	SCOTCH PINE	PINUS SYLVESTRIS	11	FAIR	YES	YES	
2155	SCOTCH PINE	PINUS SYLVESTRIS	11	FAIR	YES	YES	
2156	NORWAY SPRUCE	PICEA ABIES	22	FAIR	YES	YES	
2157	NORWAY SPRUCE	PICEA ABIES	11	FAIR	YES	YES	2-LEADERS 11 & 11
2158	NORWAY SPRUCE	PICEA ABIES	12	FAIR	YES	YES	
2159	NORWAY SPRUCE	PICEA ABIES	12	FAIR	YES	YES	
2160	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	YES	
2161	NORWAY SPRUCE	PICEA ABIES	11	FAIR	YES	YES	
2162	NORWAY SPRUCE	PICEA ABIES	11	FAIR	YES	YES	
2163	NORWAY SPRUCE	PICEA ABIES	11	FAIR	YES	YES	
2164	NORWAY SPRUCE	PICEA ABIES	11	FAIR	YES	YES	
2165	WHITE SPRUCE	PICEA GLAUCA	10	FAIR	YES	YES	
2166	WHITE SPRUCE	PICEA GLAUCA	8	FAIR	YES	YES	
2167	NORWAY SPRUCE	PICEA ABIES	8	FAIR	YES	YES	
2168	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	YES	
2169	NORWAY SPRUCE	PICEA ABIES	13	FAIR	YES	YES	
2170	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	YES	
2171	NORWAY SPRUCE	PICEA ABIES	9	FAIR	YES	YES	
2172	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	YES	
2173	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	YES	
2174	NORWAY SPRUCE	PICEA ABIES	13	FAIR	YES	YES	
2175	NORWAY SPRUCE	PICEA ABIES	11	FAIR	YES	YES	
2176	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	YES	
2177	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	YES	
2178	NORWAY SPRUCE	PICEA ABIES	11	FAIR	YES	YES	
2179	NORWAY SPRUCE	PICEA ABIES	11	FAIR	YES	YES	
2180	NORWAY SPRUCE	PICEA ABIES	9	FAIR	YES	YES	
2181	NORWAY SPRUCE	PICEA ABIES	14	FAIR	YES	YES	
2182	NORWAY SPRUCE	PICEA ABIES	13	FAIR	YES	YES	
2183	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	YES	
2184	NORWAY SPRUCE	PICEA ABIES	12	FAIR	YES	YES	
2185	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	YES	
2186	SCOTCH PINE	PINUS SYLVESTRIS	8	FAIR	YES	YES	
2187	SCOTCH PINE	PINUS SYLVESTRIS	9	FAIR	YES	YES	
2188	SCOTCH PINE	PINUS SYLVESTRIS	12	FAIR	YES	YES	
2189	SCOTCH PINE	PINUS SYLVESTRIS	9	FAIR	YES	YES	
2190	NORWAY SPRUCE	PICEA ABIES	9	FAIR	YES	YES	
2191	NORWAY SPRUCE	PICEA ABIES	8	FAIR	YES	YES	
2192	NORWAY SPRUCE	PICEA ABIES	7	FAIR	YES	YES	
2193	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	YES	
2194	WHITE SPRUCE	PICEA GLAUCA	10	FAIR	YES	YES	
2195	NORWAY SPRUCE	PICEA ABIES	14	FAIR	YES	YES	
2196	WHITE SPRUCE	PICEA GLAUCA	12	FAIR	YES	YES	
2197	NORWAY SPRUCE	PICEA ABIES	11	FAIR	YES	YES	
2198	WHITE SPRUCE	PICEA GLAUCA	11	FAIR	YES	YES	
2199	WHITE SPRUCE	PICEA GLAUCA	8	FAIR	YES	YES	
2200	WHITE SPRUCE	PICEA GLAUCA	9	FAIR	YES	YES	

2201	WHITE SPRUCE	PICEA GLAUCA	8	FAIR	YES	YES	
2202	NORWAY SPRUCE	PICEA ABIES	11	FAIR	YES	YES	
2203	NORWAY SPRUCE	PICEA ABIES	11	FAIR	YES	YES	
2204	NORWAY SPRUCE	PICEA ABIES	9	FAIR	YES	YES	
2205	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	YES	
2206	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	YES	
2207	NORWAY SPRUCE	PICEA ABIES	12	FAIR	YES	YES	
2208	NORWAY SPRUCE	PICEA ABIES	12	FAIR	YES	YES	
2209	NORWAY SPRUCE	PICEA ABIES	13	FAIR	YES	YES	
2210	NORWAY SPRUCE	PICEA ABIES	16	FAIR	YES	YES	
2211	WHITE SPRUCE	PICEA GLAUCA	9	FAIR	YES	YES	
2212	WHITE SPRUCE	PICEA GLAUCA	9	FAIR	YES	YES	
2213	WHITE SPRUCE	PICEA GLAUCA	11	FAIR	YES	YES	
2214	WHITE SPRUCE	PICEA GLAUCA	10	FAIR	YES	YES	
2215	WHITE SPRUCE	PICEA GLAUCA	10	FAIR	YES	YES	
2216	WHITE SPRUCE	PICEA GLAUCA	10	FAIR	YES	YES	
2217	WHITE SPRUCE	PICEA GLAUCA	10	FAIR	YES	YES	
2218	WHITE SPRUCE	PICEA GLAUCA	10	FAIR	YES	YES	
2219	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	YES	
2220	NORWAY SPRUCE	PICEA ABIES	12	FAIR	YES	YES	
2221	NORWAY SPRUCE	PICEA ABIES	12	FAIR	YES	YES	
2222	NORWAY SPRUCE	PICEA ABIES	14	FAIR	YES	YES	
2223	NORWAY SPRUCE	PICEA ABIES	12	FAIR	YES	YES	
2224	NORWAY SPRUCE	PICEA ABIES	13	FAIR	YES	YES	
2225	NORWAY SPRUCE	PICEA ABIES	13	FAIR	YES	YES	
2226	NORWAY SPRUCE	PICEA ABIES	13	FAIR	YES	YES	
2227	NORWAY SPRUCE	PICEA ABIES	13	FAIR	YES	YES	
2228	NORWAY SPRUCE	PICEA ABIES	12	FAIR	YES	YES	
2229	NORWAY SPRUCE	PICEA ABIES	8	FAIR	YES	YES	
2230	NORWAY SPRUCE	PICEA ABIES	12	FAIR	YES	YES	
2231	SCOTCH PINE	PINUS SYLVESTRIS	8	FAIR	YES	YES	
2232	SCOTCH PINE	PINUS SYLVESTRIS	8	FAIR	YES	YES	
2233	SCOTCH PINE	PINUS SYLVESTRIS	11	FAIR	YES	YES	
2234	SCOTCH PINE	PINUS SYLVESTRIS	12	FAIR	YES	YES	
2235	NORWAY SPRUCE	PICEA ABIES	17	FAIR	YES	YES	
2236	NORWAY SPRUCE	PICEA ABIES	16	FAIR	YES	YES	
2237	SCOTCH PINE	PINUS SYLVESTRIS	11	FAIR	YES	YES	
2238	SCOTCH PINE	PINUS SYLVESTRIS	9	FAIR	YES	YES	
2239	NORWAY SPRUCE	PICEA ABIES	16	FAIR	YES	YES	
2240	NORWAY SPRUCE	PICEA ABIES	16	FAIR	YES	YES	
2241	WHITE SPRUCE	PICEA GLAUCA	12	FAIR	YES	YES	
2242	WHITE SPRUCE	PICEA GLAUCA	10	FAIR	YES	YES	
2243	WHITE SPRUCE	PICEA GLAUCA	9	FAIR	YES	YES	
2244	WHITE SPRUCE	PICEA GLAUCA	12	FAIR	YES	YES	
2245	WHITE SPRUCE	PICEA GLAUCA	8	FAIR	YES	YES	
2246	WHITE SPRUCE	PICEA GLAUCA	12	FAIR	YES	YES	
2247	WHITE SPRUCE	PICEA GLAUCA	12	FAIR	YES	YES	
2248	WHITE SPRUCE	PICEA GLAUCA	12	FAIR	YES	YES	
2249	WHITE SPRUCE	PICEA GLAUCA	11	FAIR	YES	YES	
2250	BLACK WALNUT	JUGLANS NIGRA	13	GOOD	YES	YES	
2251	WHITE SPRUCE	PICEA GLAUCA	9	FAIR	YES	YES	
2252	NORWAY SPRUCE	PICEA ABIES	12	FAIR	YES	YES	
2253	NORWAY SPRUCE	PICEA ABIES	12	FAIR	YES	YES	
2254	NORWAY SPRUCE	PICEA ABIES	14	FAIR	YES	YES	
2255	NORWAY SPRUCE	PICEA ABIES	8	FAIR	YES	YES	
2256	NORWAY SPRUCE	PICEA ABIES	12	FAIR	YES	YES	
2257	NORWAY SPRUCE	PICEA ABIES	13	FAIR	YES	YES	
2258	NORWAY SPRUCE	PICEA ABIES	9	FAIR	YES	YES	
2259	NORWAY SPRUCE	PICEA ABIES	8	FAIR	YES	YES	
2260	NORWAY SPRUCE	PICEA ABIES	9	FAIR	YES	YES	
2261	NORWAY SPRUCE	PICEA ABIES	12	FAIR	YES	YES	
2262	NORWAY SPRUCE	PICEA ABIES	12	FAIR	YES	YES	
2263	NORWAY SPRUCE	PICEA ABIES	12	FAIR	YES	YES	
2264	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	YES	
2265	NORWAY SPRUCE	PICEA ABIES	9	FAIR	YES	YES	
2266	NORWAY SPRUCE	PICEA ABIES	13	FAIR	YES	YES	
2267	NORWAY SPRUCE	PICEA ABIES	11	FAIR	YES	YES	
2268	NORWAY SPRUCE	PICEA ABIES	11	FAIR	YES	YES	
2269	NORWAY SPRUCE	PICEA ABIES	11	FAIR	YES	YES	
2270	NORWAY SPRUCE	PICEA ABIES	7	FAIR	YES	YES	
2271	NORWAY SPRUCE	PICEA ABIES	14	FAIR	YES	YES	
2272	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	NO	
2273	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	YES	
2274	SCOTCH PINE	PINUS SYLVESTRIS	12	FAIR	YES	NO	
2275	NORWAY SPRUCE	PICEA ABIES	11	FAIR	YES	NO	
2276	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	NO	
2277	NORWAY SPRUCE	PICEA ABIES	11	FAIR	YES	NO	
2278	NORWAY SPRUCE	PICEA ABIES	9	FAIR	YES	YES	
2279	NORWAY SPRUCE	PICEA ABIES	11	FAIR	YES	NO	
2280	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	NO	
2281	NORWAY SPRUCE	PICEA ABIES	11	FAIR	YES	NO	
2282	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	NO	
2283	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	NO	
2284	NORWAY SPRUCE	PICEA ABIES	14	FAIR	YES	NO	
2285	NORWAY SPRUCE	PICEA ABIES	8	FAIR	YES	NO	
2286	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	NO	
2287	NORWAY SPRUCE	PICEA ABIES	11	FAIR	YES	NO	
2288	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	NO	
2289	NORWAY SPRUCE	PICEA ABIES	12	FAIR	YES	NO	
2290	NORWAY SPRUCE	PICEA ABIES	11	FAIR	YES	NO	
2291	NORWAY SPRUCE	PICEA ABIES	12	FAIR	YES	NO	
2292	NORWAY SPRUCE	PICEA ABIES	9	FAIR	YES	NO	
2293	NORWAY SPRUCE	PICEA ABIES	11	FAIR	YES	NO	
2294	NORWAY SPRUCE	PICEA ABIES	14	FAIR	YES	NO	
2295	NORWAY SPRUCE	PICEA ABIES	8	FAIR	YES	NO	
2296	NORWAY SPRUCE	PICEA ABIES	8	FAIR	YES	NO	
2297	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	NO	
2298	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	NO	
2299	BLACK WALNUT	JUGLANS NIGRA	8	FAIR	YES	NO	
2300	SCOTCH PINE	PINUS SYLVESTRIS	7	FAIR	YES	NO	

2301	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	NO	
2302	SCOTCH PINE	PINUS SYLVESTRIS	8	FAIR	YES	NO	
2303	SCOTCH PINE	PINUS SYLVESTRIS	9	FAIR	YES	NO	
2304	SCOTCH PINE	PINUS SYLVESTRIS	13	FAIR	YES	NO	
2305	SCOTCH PINE	PINUS SYLVESTRIS	11	FAIR	YES	NO	
2306	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	NO	
2307	SCOTCH PINE	PINUS SYLVESTRIS	9	FAIR	YES	NO	
2308	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	NO	
2309	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	YES	
2310	SCOTCH PINE	PINUS SYLVESTRIS	12	FAIR	YES	YES	
2311	RED PINE	PINUS RESINOSA	10	FAIR	YES	YES	
2312	RED PINE	PINUS RESINOSA	11	FAIR	YES	YES	
2313	SCOTCH PINE	PINUS SYLVESTRIS	11	FAIR	YES	NO	
2314	SCOTCH PINE	PINUS SYLVESTRIS	11	FAIR	YES	NO	
2315	SCOTCH PINE	PINUS SYLVESTRIS	12	FAIR	YES	NO	
2316	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	NO	
2317	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	NO	
2318	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	NO	
2319	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	NO	
2320	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	NO	
2321	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	NO	
2322	SCOTCH PINE	PINUS SYLVESTRIS	9	FAIR	YES	NO	
2323	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	NO	
2324	NORWAY SPRUCE	PICEA ABIES	8	FAIR	YES	NO	
2325	NORWAY SPRUCE	PICEA ABIES	13	FAIR	YES	NO	
2326	NORWAY SPRUCE	PICEA ABIES	9	FAIR	YES	NO	
2327	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	NO	
2328	NORWAY SPRUCE	PICEA ABIES	9	FAIR	YES	NO	
2329	NORWAY SPRUCE	PICEA ABIES	13	FAIR	YES	NO	
2330	NORWAY SPRUCE	PICEA ABIES	13	FAIR	YES	NO	
2331	NORWAY SPRUCE	PICEA ABIES	13	FAIR	YES	NO	
2332	NORWAY SPRUCE	PICEA ABIES	11	FAIR	YES	NO	
2333	NORWAY SPRUCE	PICEA ABIES	11	FAIR	YES	NO	
2334	NORWAY SPRUCE	PICEA ABIES	12	FAIR	YES	NO	
2335	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	NO	
2336	NORWAY SPRUCE	PICEA ABIES	11	FAIR	YES	NO	
2337	NORWAY SPRUCE	PICEA ABIES	12	FAIR	YES	NO	
2338	SCOTCH PINE	PINUS SYLVESTRIS	12	FAIR	YES	NO	
2339	SCOTCH PINE	PINUS SYLVESTRIS	8	FAIR	YES	NO	
2340	SCOTCH PINE	PINUS SYLVESTRIS	8	FAIR	YES	NO	
2341	SCOTCH PINE	PINUS SYLVESTRIS	9	FAIR	YES	NO	
2342	SCOTCH PINE	PINUS SYLVESTRIS	12	FAIR	YES	NO	
2343	SCOTCH PINE	PINUS SYLVESTRIS	9	FAIR	YES	NO	
2344	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	NO	
2345	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	NO	
2346	SCOTCH PINE	PINUS SYLVESTRIS	9	FAIR	YES	NO	
2347	SCOTCH PINE	PINUS SYLVESTRIS	8	FAIR	YES	NO	
2348	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	NO	
2349	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	NO	
2350	RED PINE	PINUS RESINOSA	8	FAIR	YES	NO	
2351	NORWAY SPRUCE	PICEA ABIES	9	FAIR	YES	NO	
2352	NORWAY SPRUCE	PICEA ABIES	8	FAIR	YES	NO	
2353	NORWAY SPRUCE	PICEA ABIES	13	GOOD	YES	NO	
2354	NORWAY SPRUCE	PICEA ABIES	10	GOOD	YES	NO	
2355	NORWAY SPRUCE	PICEA ABIES	10	GOOD	YES	NO	
2356	NORWAY SPRUCE	PICEA ABIES	12	FAIR	YES	NO	
2357	NORWAY SPRUCE	PICEA ABIES	10	FAIR	YES	NO	
2358	NORWAY SPRUCE	PICEA ABIES	13	FAIR	YES	NO	
2359	NORWAY SPRUCE	PICEA ABIES	11	FAIR	YES	NO	
2360	SCOTCH PINE	PINUS SYLVESTRIS	8	FAIR	YES	NO	
2361	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	NO	
2362	SCOTCH PINE	PINUS SYLVESTRIS	9	FAIR	YES	NO	
2363	SCOTCH PINE	PINUS SYLVESTRIS	10	FAIR	YES	NO	
2364	SCOTCH PINE	PINUS SYLVESTRIS	9	FAIR	YES	NO	
2365	SCOTCH PINE	PINUS SYLVESTRIS	9	FAIR	YES	NO	
2366	SCOTCH PINE	PINUS SYLVESTRIS	11	FAIR	YES	NO	
2367	SCOTCH PINE	PINUS SYLVESTRIS	8	FAIR	YES	NO	
2368	SCOTCH PINE	PINUS SYLVESTRIS	7	FAIR	YES	NO	
2369	SIBERIAN ELM	ULMUS PUMILA	18	FAIR	NO	YES	
2370	SCOTCH PINE	PINUS SYLVESTRIS	8	FAIR	YES	YES	
2371	SCOTCH PINE	PINUS SYLVESTRIS	10	GOOD	YES	YES	
2372	SCOTCH PINE	PINUS SYLVESTRIS	10	GOOD	YES	YES	
2373	SCOTCH PINE	PINUS SYLVESTRIS	12	FAIR	YES	YES	
2374	SCOTCH PINE	PINUS SYLVESTRIS	11	GOOD	YES	YES	
2375	JACK PINE	PINUS BANKSIANA	9	GOOD	YES	YES	
2376	SCOTCH PINE	PINUS SYLVESTRIS	9	FAIR	YES	YES	
2377	SCOTCH PINE	PINUS SYLVESTRIS	8	GOOD	YES	YES	
2378	SCOTCH PINE	PINUS SYLVESTRIS	18	FAIR	YES	YES	
2379	EASTERN WHITE PINE	PINUS STROBUS	8	GOOD	YES	YES	
2380	JACK PINE	PINUS BANKSIANA	8	GOOD	YES	YES	
2381	SCOTCH PINE	PINUS SYLVESTRIS	9	GOOD	YES	YES	
2382	SCOTCH PINE	PINUS SYLVESTRIS	9	GOOD	YES	YES	
2383	SCOTCH PINE	PINUS SYLVESTRIS	11	GOOD	YES	NO	
2384	BALSAM FIR	ABIES BALSAMEA	12	GOOD	YES	NO	
2385	BALSAM FIR	ABIES BALSAMEA	12	GOOD	YES	NO	
2386	RED PINE	PINUS RESINOSA	19	GOOD	YES	NO	
2387	RED PINE	PINUS RESINOSA	16	GOOD	YES	NO	
2388	BALSAM FIR	ABIES BALSAMEA	15	GOOD	YES	NO	
2389	BALSAM FIR	ABIES BALSAMEA	28	GOOD	YES	NO	
2390	BALSAM FIR	ABIES BALSAMEA	13	GOOD	YES	NO	
2391	BALSAM FIR	ABIES BALSAMEA	8	GOOD	YES	NO	
2392	WHITE SPRUCE	PICEA GLAUCA	9	GOOD	YES	NO	
2393	WHITE SPRUCE	PICEA GLAUCA	9	GOOD	YES	NO	
2394	WHITE SPRUCE	PICEA GLAUCA	8	GOOD	YES	NO	
2395	WHITE SPRUCE	PICEA GLAUCA	10	GOOD	YES	NO	
2396	WHITE SPRUCE	PICEA GLAUCA	13	GOOD	YES	NO	
2397	WHITE SPRUCE	PICEA GLAUCA	14	GOOD	YES	NO	
2398	WHITE SPRUCE	PICEA GLAUCA	8	GOOD	YES	NO	
2399	WHITE SPRUCE	PICEA GLAUCA	8	GOOD	YES	NO	
2400	WHITE SPRUCE	PICEA GLAUCA	15	GOOD	YES	NO	

NEW LAKE ELMO ELEMENTARY SCHOOL

Stillwater Area Public Schools ISD #834
1875 Greeley Street South
Stillwater, MN 55082

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

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

CALYX DESIGN GROUP
Landscape Architecture
Planning
475 Cleveland Avenue N. | Suite 101A
Saint Paul, MN 55104
651.788.9018 | calyxdesigngroup.com

© 2024 CALYX Design Group, LLC. All rights reserved.

I hereby certify that this plan, specifications 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.

Benjamin D. Hartberg, PLA

Date: xx.xx.xxxx Lic. No.: 48084

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: HL
Check: BH

North

TREE PRESERVATION & MITIGATION SCHEDULES

L3.008

X:\Projects\2024 Projects\24-127 Lake Elmo Elementary School, Lake Elmo, MN\24127_LANDSCAPE_24x36 City Submittal_08-23-2024.dwg

MN

LANDOWNER PLANTED TREE

NATURALLY OCCURRING TREE

2401	BALSAM FIR	*ABIES BALSAMEA*	21	FAIR	YES	NO	
2402	BALSAM FIR	*ABIES BALSAMEA*	27	GOOD	YES	NO	
2403	RED PINE	*PINUS RESINOSA*	20	FAIR	YES	NO	
2404	RED PINE	*PINUS RESINOSA*	10	FAIR	YES	NO	
2405	RED PINE	*PINUS RESINOSA*	15	FAIR	YES	NO	
2406	RED PINE	*PINUS RESINOSA*	11	FAIR	YES	NO	
2407	RED PINE	*PINUS RESINOSA*	13	FAIR	YES	NO	
2408	WHITE SPRUCE	*PICEA GLAUCA*	16	GOOD	YES	NO	
2409	WHITE SPRUCE	*PICEA GLAUCA*	14	GOOD	YES	NO	
2410	WHITE SPRUCE	*PICEA GLAUCA*	15	GOOD	YES	NO	
2411	SIBERIAN ELM	*ULMUS PUMILA*	12	FAIR	NO	NO	
2412	WHITE SPRUCE	*PICEA GLAUCA*	12	GOOD	YES	NO	
2413	WHITE SPRUCE	*PICEA GLAUCA*	14	GOOD	YES	NO	
2414	WHITE SPRUCE	*PICEA GLAUCA*	9	GOOD	YES	NO	
2415	WHITE SPRUCE	*PICEA GLAUCA*	13	GOOD	YES	NO	
2416	WHITE SPRUCE	*PICEA GLAUCA*	12	GOOD	YES	NO	
2417	WHITE SPRUCE	*PICEA GLAUCA*	13	GOOD	YES	NO	
2418	WHITE SPRUCE	*PICEA GLAUCA*	17	GOOD	YES	NO	
2419	BLACK CHERRY	*PRUNUS SEROTINA*	12	GOOD	YES	NO	
2420	SCOTCH PINE	*PINUS SYLVESTRIS*	10	GOOD	YES	NO	
2421	SCOTCH PINE	*PINUS SYLVESTRIS*	10	GOOD	YES	NO	
2422	SCOTCH PINE	*PINUS SYLVESTRIS*	8	GOOD	YES	NO	
2423	SCOTCH PINE	*PINUS SYLVESTRIS*	8	GOOD	YES	NO	
2424	WHITE SPRUCE	*PICEA GLAUCA*	8	GOOD	YES	NO	
2425	WHITE SPRUCE	*PICEA GLAUCA*	10	GOOD	YES	NO	
2426	SCOTCH PINE	*PINUS SYLVESTRIS*	8	GOOD	YES	NO	
2427	SCOTCH PINE	*PINUS SYLVESTRIS*	8	GOOD	YES	NO	
2428	WHITE SPRUCE	*PICEA GLAUCA*	13	GOOD	YES	NO	
2429	SCOTCH PINE	*PINUS SYLVESTRIS*	9	GOOD	YES	NO	
2430	SCOTCH PINE	*PINUS SYLVESTRIS*	10	GOOD	YES	NO	
2431	SCOTCH PINE	*PINUS SYLVESTRIS*	11	GOOD	YES	NO	
2432	SCOTCH PINE	*PINUS SYLVESTRIS*	9	GOOD	YES	NO	
2433	SCOTCH PINE	*PINUS SYLVESTRIS*	10	GOOD	YES	NO	
2434	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	NO	
2435	WHITE SPRUCE	*PICEA GLAUCA*	10	GOOD	YES	NO	
2436	WHITE SPRUCE	*PICEA GLAUCA*	11	GOOD	YES	NO	
2437	SCOTCH PINE	*PINUS SYLVESTRIS*	11	GOOD	YES	NO	
2438	WHITE SPRUCE	*PICEA GLAUCA*	9	GOOD	YES	NO	
2439	WHITE SPRUCE	*PICEA GLAUCA*	13	GOOD	YES	NO	
2440	SCOTCH PINE	*PINUS SYLVESTRIS*	10	GOOD	YES	NO	
2441	SCOTCH PINE	*PINUS SYLVESTRIS*	13	GOOD	YES	NO	
2442	SCOTCH PINE	*PINUS SYLVESTRIS*	9	GOOD	YES	NO	
2443	WHITE SPRUCE	*PICEA GLAUCA*	9	GOOD	YES	NO	
2444	WHITE SPRUCE	*PICEA GLAUCA*	16	GOOD	YES	NO	
2445	SCOTCH PINE	*PINUS SYLVESTRIS*	11	GOOD	YES	NO	
2446	SCOTCH PINE	*PINUS SYLVESTRIS*	10	GOOD	YES	NO	
2447	SCOTCH PINE	*PINUS SYLVESTRIS*	9	GOOD	YES	NO	
2448	SCOTCH PINE	*PINUS SYLVESTRIS*	10	GOOD	YES	NO	
2449	SCOTCH PINE	*PINUS SYLVESTRIS*	9	GOOD	YES	NO	
2450	SCOTCH PINE	*PINUS SYLVESTRIS*	10	GOOD	YES	NO	
2451	SCOTCH PINE	*PINUS SYLVESTRIS*	8	GOOD	YES	NO	
2452	SCOTCH PINE	*PINUS SYLVESTRIS*	9	GOOD	YES	NO	
2453	SCOTCH PINE	*PINUS SYLVESTRIS*	11	GOOD	YES	NO	
2454	SCOTCH PINE	*PINUS SYLVESTRIS*	8	GOOD	YES	NO	
2455	SCOTCH PINE	*PINUS SYLVESTRIS*	9	GOOD	YES	NO	
2456	SCOTCH PINE	*PINUS SYLVESTRIS*	12	GOOD	YES	NO	
2457	SCOTCH PINE	*PINUS SYLVESTRIS*	10	GOOD	YES	NO	
2458	SCOTCH PINE	*PINUS SYLVESTRIS*	10	GOOD	YES	NO	
2459	SCOTCH PINE	*PINUS SYLVESTRIS*	10	GOOD	YES	NO	
2460	SCOTCH PINE	*PINUS SYLVESTRIS*	10	GOOD	YES	NO	
2461	WHITE SPRUCE	*PICEA GLAUCA*	10	GOOD	YES	NO	
2462	WHITE SPRUCE	*PICEA GLAUCA*	10	GOOD	YES	NO	
2463	WHITE SPRUCE	*PICEA GLAUCA*	13	GOOD	YES	NO	
2464	WHITE SPRUCE	*PICEA GLAUCA*	10	GOOD	YES	NO	
2465	WHITE SPRUCE	*PICEA GLAUCA*	14	GOOD	YES	NO	
2466	SCOTCH PINE	*PINUS SYLVESTRIS*	10	GOOD	YES	NO	
2467	SCOTCH PINE	*PINUS SYLVESTRIS*	12	GOOD	YES	NO	
2468	WHITE SPRUCE	*PICEA GLAUCA*	9	FAIR	YES	NO	
2469	WHITE SPRUCE	*PICEA GLAUCA*	14	FAIR	YES	NO	
2470	WHITE SPRUCE	*PICEA GLAUCA*	9	FAIR	YES	NO	
2471	WHITE SPRUCE	*PICEA GLAUCA*	12	FAIR	YES	NO	
2472	SCOTCH PINE	*PINUS SYLVESTRIS*	9	FAIR	YES	NO	
2473	SCOTCH PINE	*PINUS SYLVESTRIS*	9	FAIR	YES	NO	
2474	SCOTCH PINE	*PINUS SYLVESTRIS*	9	FAIR	YES	NO	
2475	SCOTCH PINE	*PINUS SYLVESTRIS*	9	FAIR	YES	NO	
2476	SCOTCH PINE	*PINUS SYLVESTRIS*	10	FAIR	YES	NO	
2477	SCOTCH PINE	*PINUS SYLVESTRIS*	8	FAIR	YES	NO	
2478	SCOTCH PINE	*PINUS SYLVESTRIS*	9	FAIR	YES	NO	
2479	SCOTCH PINE	*PINUS SYLVESTRIS*	10	FAIR	YES	NO	
2480	SCOTCH PINE	*PINUS SYLVESTRIS*	13	FAIR	YES	NO	
2481	SCOTCH PINE	*PINUS SYLVESTRIS*	8	FAIR	YES	NO	
2482	SCOTCH PINE	*PINUS SYLVESTRIS*	10	FAIR	YES	NO	
2483	SCOTCH PINE	*PINUS SYLVESTRIS*	10	FAIR	YES	NO	
2484	SCOTCH PINE	*PINUS SYLVESTRIS*	11	FAIR	YES	NO	
2485	SCOTCH PINE	*PINUS SYLVESTRIS*	10	FAIR	YES	NO	
2486	SCOTCH PINE	*PINUS SYLVESTRIS*	10	FAIR	YES	NO	
2487	SCOTCH PINE	*PINUS SYLVESTRIS*	8	FAIR	YES	NO	
2488	SCOTCH PINE	*PINUS SYLVESTRIS*	9	FAIR	YES	NO	
2489	SCOTCH PINE	*PINUS SYLVESTRIS*	8	FAIR	YES	NO	
2490	SCOTCH PINE	*PINUS SYLVESTRIS*	9	FAIR	YES	NO	
2491	SCOTCH PINE	*PINUS SYLVESTRIS*	11	FAIR	YES	NO	
2492	SCOTCH PINE	*PINUS SYLVESTRIS*	9	FAIR	YES	NO	
2493	SCOTCH PINE	*PINUS SYLVESTRIS*	16	FAIR	YES	NO	2-LEADERS 9 & 7
2494	SCOTCH PINE	*PINUS SYLVESTRIS*	14	FAIR	YES	NO	2-LEADERS 8 & 6
2495	SCOTCH PINE	*PINUS SYLVESTRIS*	12	FAIR	YES	NO	
2496	NORWAY SPRUCE	*PICEA ABIES*	11	FAIR	YES	NO	
2497	NORWAY SPRUCE	*PICEA ABIES*	12	FAIR	YES	NO	
2498	NORWAY SPRUCE	*PICEA ABIES*	16	FAIR	YES	NO	
2499	NORWAY SPRUCE	*PICEA ABIES*	14	FAIR	YES	NO	
2500	NORWAY SPRUCE	*PICEA ABIES*	14	FAIR	YES	NO	
2501	SCOTCH PINE	*PINUS SYLVESTRIS*	9	FAIR	YES	NO	
2502	SCOTCH PINE	*PINUS SYLVESTRIS*	8	FAIR	YES	NO	
2503	BLACK WALNUT	*JUGLANS NIGRA*	9	FAIR	YES	NO	
2504	SCOTCH PINE	*PINUS SYLVESTRIS*	10	FAIR	YES	NO	
2505	SCOTCH PINE	*PINUS SYLVESTRIS*	11	FAIR	YES	NO	
2506	SCOTCH PINE	*PINUS SYLVESTRIS*	9	FAIR	YES	NO	
2507	SCOTCH PINE	*PINUS SYLVESTRIS*	14	FAIR	YES	NO	
2508	SCOTCH PINE	*PINUS SYLVESTRIS*	9	FAIR	YES	NO	
2509	SCOTCH PINE	*PINUS SYLVESTRIS*	10	FAIR	YES	NO	
2510	SCOTCH PINE	*PINUS SYLVESTRIS*	11	FAIR	YES	NO	
2511	SCOTCH PINE	*PINUS SYLVESTRIS*	10	FAIR	YES	NO	
2512	SCOTCH PINE	*PINUS SYLVESTRIS*	8	FAIR	YES	NO	
2513	NORWAY SPRUCE	*PICEA ABIES*	12	FAIR	YES	NO	
2514	NORWAY SPRUCE	*PICEA ABIES*	11	FAIR	YES	NO	
2515	NORWAY SPRUCE	*PICEA ABIES*	10	FAIR	YES	NO	
2516	NORWAY SPRUCE	*PICEA ABIES*	9	FAIR	YES	NO	
2517	GREEN ASH	*FRAXINUS PENNSYLVANICA*	17	FAIR	YES	NO	
2518	SCOTCH PINE	*PINUS SYLVESTRIS*	16	FAIR	YES	NO	
2519	SCOTCH PINE	*PINUS SYLVESTRIS*	10	FAIR	YES	NO	
2520	SCOTCH PINE	*PINUS SYLVESTRIS*	11	FAIR	YES	NO	
2521	SCOTCH PINE	*PINUS SYLVESTRIS*	10	FAIR	YES	NO	
2522	SCOTCH PINE	*PINUS SYLVESTRIS*	12	FAIR	YES	NO	
2523	SCOTCH PINE	*PINUS SYLVESTRIS*	13	FAIR	YES	NO	
2524	SCOTCH PINE	*PINUS SYLVESTRIS*	12	FAIR	YES	NO	
2525	SCOTCH PINE	*PINUS SYLVESTRIS*	11	FAIR	YES	NO	
2526	SCOTCH PINE	*PINUS SYLVESTRIS*	11	FAIR	YES	NO	
2527	NORWAY SPRUCE	*PICEA ABIES*	10	FAIR	YES	NO	
2528	SCOTCH PINE	*PINUS SYLVESTRIS*	11	FAIR	YES	NO	
2529	SCOTCH PINE	*PINUS SYLVESTRIS*	10	FAIR	YES	NO	
2530	SCOTCH PINE	*PINUS SYLVESTRIS*	9	FAIR	YES	NO	
2531	SCOTCH PINE	*PINUS SYLVESTRIS*	12	FAIR	YES	NO	
2532	NORWAY SPRUCE	*PICEA ABIES*	13	FAIR	YES	NO	
2533	NORWAY SPRUCE	*PICEA ABIES*	9	FAIR	YES	NO	
2534	NORWAY SPRUCE	*PICEA ABIES*	8	FAIR	YES	NO	
2535	NORWAY SPRUCE	*PICEA ABIES*	8	FAIR	YES	NO	
2536	NORWAY SPRUCE	*PICEA ABIES*	10	FAIR	YES	NO	
2537	SCOTCH PINE	*PINUS SYLVESTRIS*	13	FAIR	YES	NO	
2538	SCOTCH PINE	*PINUS SYLVESTRIS*	13	FAIR	YES	NO	
2539	SCOTCH PINE	*PINUS SYLVESTRIS*	11	FAIR	YES	NO	
2540	SCOTCH PINE	*PINUS SYLVESTRIS*	14	FAIR	YES	NO	
2541	GREEN ASH	*FRAXINUS PENNSYLVANICA*	12	FAIR	YES	NO	
2542	BOXELDER	*ACER NEGUNDO*	19	FAIR	NO	NO	
2543	SCOTCH PINE	*PINUS SYLVESTRIS*	13	FAIR	YES	NO	
2544	SCOTCH PINE	*PINUS SYLVESTRIS*	8	FAIR	YES	NO	
2545	SCOTCH PINE	*PINUS SYLVESTRIS*	11	FAIR	YES	NO	
2546	SCOTCH PINE	*PINUS SYLVESTRIS*	11	FAIR	YES	NO	
2547	SCOTCH PINE	*PINUS SYLVESTRIS*	12	FAIR	YES	NO	
2548	SCOTCH PINE	*PINUS SYLVESTRIS*	15	FAIR	YES	NO	
2549	SCOTCH PINE	*PINUS SYLVESTRIS*	12	FAIR	YES	NO	
2550	SCOTCH PINE	*PINUS SYLVESTRIS*	9	FAIR	YES	NO	
2551	NORWAY SPRUCE	*PICEA ABIES*	16	FAIR	YES	NO	
2552	SCOTCH PINE	*PINUS SYLVESTRIS*	14	FAIR	YES	NO	
2553	SCOTCH PINE	*PINUS SYLVESTRIS*	8	FAIR	YES	NO	
2554	EASTERN COTTONWOOD	*POPULUS DELTOIDES*	16	FAIR	NO	NO	
2555	NORWAY SPRUCE	*PICEA ABIES*	16	FAIR	YES	NO	
2556	NORWAY SPRUCE	*PICEA ABIES*	11	FAIR	YES	NO	
2557	NORWAY SPRUCE	*PICEA ABIES*	11	FAIR	YES	NO	
2558	NORWAY SPRUCE	*PICEA ABIES*	16	FAIR	YES	NO	
2559	NORWAY SPRUCE	*PICEA ABIES*	8	FAIR	YES	NO	
2560	NORWAY SPRUCE	*PICEA ABIES*	8	FAIR	YES	NO	
2561	NORWAY SPRUCE	*PICEA ABIES*	11	FAIR	YES	NO	
2562	NORWAY SPRUCE	*PICEA ABIES*	10	FAIR	YES	NO	
2563	SCOTCH PINE	*PINUS SYLVESTRIS*	8	FAIR	YES	NO	
2564	NORWAY SPRUCE	*PICEA ABIES*	8	FAIR	YES	NO	
2565	NORWAY SPRUCE	*PICEA ABIES*	15	FAIR	YES	NO	
2566	NORWAY SPRUCE	*PICEA ABIES*	11	FAIR	YES	NO	
2567	NORWAY SPRUCE	*PICEA ABIES*	11	FAIR	YES	NO	
2568	NORWAY SPRUCE	*PICEA ABIES*	13	FAIR	YES	NO	
2569	NORWAY SPRUCE	*PICEA ABIES*	12	FAIR	YES	NO	
2570	SCOTCH PINE	*PINUS SYLVESTRIS*	8	FAIR	YES	NO	
2571	BLACK CHERRY	*PRUNUS SEROTINA*	6	FAIR	YES	NO	
2572	NORWAY SPRUCE	*PICEA ABIES*	12	FAIR	YES	NO	
2573	NORWAY SPRUCE	*PICEA ABIES*	12	FAIR	YES	NO	
2574	NORWAY SPRUCE	*PICEA ABIES*	8	FAIR	YES	NO	
2575	NORWAY SPRUCE	*PICEA ABIES*	11	FAIR	YES	NO	
2576	NORWAY SPRUCE	*PICEA ABIES*	10	FAIR	YES	NO	
2577	NORWAY SPRUCE	*PICEA ABIES*	11	FAIR	YES	NO	
2578	NORWAY SPRUCE	*PICEA ABIES*	11	FAIR	YES	NO	
2579	NORWAY SPRUCE	*PICEA ABIES*	9	FAIR	YES	NO	
2580	NORWAY SPRUCE	*PICEA ABIES*	11	FAIR	YES	NO	
2581	NORWAY SPRUCE	*PICEA ABIES*	11	FAIR	YES	NO	
2582	NORWAY SPRUCE	*PICEA ABIES*	15	FAIR	YES	NO	
2583	NORWAY SPRUCE	*PICEA ABIES*	15	FAIR	YES	NO	
2584	NORWAY SPRUCE	*PICEA ABIES*	15	FAIR	YES	NO	
2585	NORWAY SPRUCE	*PICEA ABIES*	16	GOOD	YES	NO	
2586	NORWAY SPRUCE	*PICEA ABIES*	18	GOOD	YES	NO	
2587	NORWAY SPRUCE	*PICEA ABIES*	13	FAIR	YES	NO	
2588	NORWAY SPRUCE	*PICEA ABIES*	8	FAIR	YES	NO	
2589	NORWAY SPRUCE	*PICEA ABIES*	12	FAIR	YES	NO	
2590	NORWAY SPRUCE	*PICEA ABIES*	14	FAIR	YES	NO	
2591	NORWAY SPRUCE	*PICEA ABIES*	11	FAIR	YES	NO	
2592	NORWAY SPRUCE	*PICEA ABIES*	10	FAIR	YES	NO	
2593	NORWAY SPRUCE	*PICEA ABIES*	13	FAIR	YES	NO	
2594	NORWAY SPRUCE	*PICEA ABIES*	10	FAIR	YES	NO	
2595	NORWAY SPRUCE	*PICEA ABIES*	15	FAIR	YES	NO	
2596	SIBERIAN ELM	*ULMUS PUMILA*	14	FAIR	NO	NO	
2597	NORWAY SPRUCE	*PICEA ABIES*	15	FAIR	YES	NO	
2598	NORWAY SPRUCE	*PICEA ABIES*	14	FAIR	YES	NO	
2599	NORWAY SPRUCE	*PICEA ABIES*	15	FAIR	YES	NO	
2600	NORWAY SPRUCE	*PICEA ABIES*	11	FAIR	YES	NO	
2601	NORWAY SPRUCE	*PICEA ABIES*	12	FAIR	YES	NO	
2602	NORWAY SPRUCE	*PICEA ABIES*	15	FAIR	YES	NO	
2603	NORWAY SPRUCE	*PICEA ABIES*	14	FAIR	YES	NO	
2604	NORWAY SPRUCE	*PICEA ABIES*	8	FAIR	YES	NO	
2605	NORWAY SPRUCE	*PICEA ABIES*	11	FAIR	YES	NO	
2606	NORWAY SPRUCE	*PICEA ABIES*	13	FAIR	YES	NO	
2607	NORWAY SPRUCE	*PICEA ABIES*	16	FAIR	YES	NO	
2608	NORWAY SPRUCE	*PICEA ABIES*	10	FAIR	YES	NO	
2609	NORWAY SPRUCE	*PICEA ABIES*	13	FAIR	YES	NO	
2610	NORWAY SPRUCE	*PICEA ABIES*	10	FAIR	YES	NO	
2611	NORWAY SPRUCE	*PICEA ABIES*	12	FAIR	YES	NO	
2612	NORWAY SPRUCE	*PICEA ABIES*	16	FAIR	YES	NO	
2613	NORWAY SPRUCE	*PICEA ABIES*	11	FAIR	YES	NO	
2614	NORWAY SPRUCE	*PICEA ABIES*	13	FAIR	YES	NO	
2615	NORWAY SPRUCE	*PICEA ABIES*	17	FAIR	YES	NO	
2616	NORWAY SPRUCE	*PICEA ABIES*	12	FAIR	YES	NO	
2617	NORWAY SPRUCE	*PICEA ABIES*	14	FAIR	YES	NO	
2618	NORWAY SPRUCE	*PICEA ABIES*	11	FAIR	YES	NO	
2619	NORWAY SPRUCE	*PICEA ABIES*	14	FAIR	YES	NO	
2620	NORWAY SPRUCE	*PICEA ABIES*	12	FAIR	YES	NO	
2621	NORWAY SPRUCE	*PICEA ABIES*	15	FAIR	YES	NO	
2622	NORWAY SPRUCE	*PICEA ABIES*	12	FAIR	YES	NO	
2623	NORWAY SPRUCE	*PICEA ABIES*	14	FAIR	YES	NO	
2624	NORWAY SPRUCE	*PICEA ABIES*	9	FAIR	YES	NO	
2625	NORWAY SPRUCE	*PICEA ABIES*	8	FAIR	YES	NO	
2626	NORWAY SPRUCE	*PICEA ABIES*	12	FAIR	YES	NO	
2627	NORWAY SPRUCE	*PICEA ABIES*	12	FAIR	YES	NO	
2628	NORWAY SPRUCE	*PICEA ABIES*	14	FAIR	YES	NO	
2629	NORWAY SPRUCE	*PICEA ABIES*	18	GOOD	YES	NO	
2630	NORWAY SPRUCE	*PICEA ABIES*	12	GOOD	YES	NO	
2631	NORWAY SPRUCE	*PICEA ABIES*	10	FAIR	YES	NO	
2632	NORWAY SPRUCE	*PICEA ABIES*	15	FAIR	YES	NO	
2633	NORWAY SPRUCE	*PICEA ABIES*	10	FAIR	YES	NO	
2634	NORWAY SPRUCE	*PICEA ABIES*	11	FAIR	YES	NO	
2635	NORWAY SPRUCE	*PICEA ABIES*	10	FAIR	YES	NO	
2636	NORWAY SPRUCE	*PICEA ABIES*	11	FAIR	YES	NO	
2637	NORWAY SPRUCE	*PICEA ABIES*	15	FAIR	YES	NO	
2638	NORWAY SPRUCE	*PICEA ABIES*	11	FAIR	YES	NO	
2639	NORWAY SPRUCE	*PICEA ABIES*	13	FAIR	YES	NO	
2640	NORWAY SPRUCE	*PICEA ABIES*	11	FAIR	YES	NO	
2641	NORWAY SPRUCE	*PICEA ABIES*	8	FAIR	YES	NO	
2642	NORWAY SPRUCE	*PICEA ABIES*	14	FAIR	YES	NO	
2643	NORWAY SPRUCE	*PICEA ABIES*	14	FAIR	YES	NO	
2644	NORWAY SPRUCE	*PICEA ABIES*	15	FAIR	YES	NO	
2645	NORWAY SPRUCE	*PICEA ABIES*	14	FAIR	YES	NO	
2646	NORWAY SPRUCE	*PICEA ABIES*	10	FAIR	YES	NO	
2647	NORWAY SPRUCE	*PICEA ABIES*	12	FAIR	YES	NO	
2648	NORWAY SPRUCE	*PICEA ABIES*	16	FAIR	YES	NO	
2649	NORWAY SPRUCE	*PICEA ABIES*	14	FAIR	YES	NO	
2650	NORWAY SPRUCE	*PICEA ABIES*	16	FAIR	YES	NO	
2651	NORWAY SPRUCE	*PICEA ABIES*	12	FAIR	YES	NO	
2652	NORWAY SPRUCE	*PICEA ABIES*	10	FAIR	YES	NO	
2653	SCOTCH PINE	*PINUS SYLVESTRIS*	13	FAIR	YES	NO	
2654	SCOTCH PINE	*PINUS SYLVESTRIS*	9	FAIR	YES	NO	
2655	SCOTCH PINE	*PINUS SYLVESTRIS*	10	FAIR	YES	NO	
2656	SCOTCH PINE	*PINUS SYLVESTRIS*	13	FAIR	YES	NO	
2657	NORWAY SPRUCE	*PICEA ABIES*	16	FAIR	YES	NO	
2658	NORWAY SPRUCE	*PICEA ABIES*	24	FAIR	YES	NO	
2659	NORWAY SPRUCE	*PICEA ABIES*	11	FAIR	YES	NO	
2660	NORWAY SPRUCE	*PICEA ABIES*	16	FAIR	YES	NO	
2661	SCOTCH PINE	*PINUS SYLVESTRIS*	18	FAIR	YES	NO	
2662	NORWAY SPRUCE	*PICEA ABIES*	13	FAIR	YES	NO	
2663	NORWAY SPRUCE	*PICEA ABIES*	13	FAIR	YES	NO	
2664	NORWAY SPRUCE	*PICEA ABIES*	16	GOOD	YES	NO	
2665	NORWAY SPRUCE	*PICEA ABIES*	12	GOOD	YES	NO	
2666	NORWAY SPRUCE	*PICEA ABIES*	15	FAIR	YES	NO	
2667	SCOTCH PINE	*PINUS SYLVESTRIS*	12	FAIR	YES	NO	
2668	SCOTCH PINE	*PINUS SYLVESTRIS*	10	FAIR	YES	NO	
2669	SCOTCH PINE	*PINUS SYLVESTRIS*	14	FAIR	YES	NO	
2670	SCOTCH PINE	*PINUS SYLVESTRIS*	11	FAIR	YES	NO	
2671	SCOTCH PINE	*PINUS SYLVESTRIS*	14	FAIR	YES	NO	
2672	SCOTCH PINE	*PINUS SYLVESTRIS*	10	FAIR	YES	NO	
2673	SCOTCH PINE	*PINUS SYLVESTRIS*	10	FAIR	YES	NO	
2674	SCOTCH PINE	*PINUS SYLVESTRIS*	15	FAIR	YES	NO	
2675	SCOTCH PINE	*PINUS SYLVESTRIS*	10	FAIR	YES	NO	
2676	SCOTCH PINE	*PINUS SYLVESTRIS*	11	FAIR	YES	NO	
2677	SCOTCH PINE	*PINUS SYLVESTRIS*	15	FAIR	YES	NO	
2678	SCOTCH PINE	*PINUS SYLVESTRIS*	11	FAIR	YES	NO	
2679	NORWAY SPRUCE	*PICEA ABIES*	13	GOOD	YES	NO	
2680	NORWAY SPRUCE	*PICEA ABIES*	11	GOOD	YES	NO	
2681	NORWAY SPRUCE	*PICEA ABIES*	11	GOOD	YES	NO	
2682	NORWAY SPRUCE	*PICEA ABIES*	14	GOOD	YES	NO	
2683	NORWAY SPRUCE	*PICEA ABIES*	11	GOOD	YES	NO	
2684	SCOTCH PINE	*PINUS SYLVESTRIS*	11	FAIR	YES	NO	
2685	NORWAY SPRUCE	*PICEA ABIES*	11	FAIR	YES	NO	
2686	BLACK CHERRY	*PRUNUS SEROTINA*	11	FAIR	YES	NO	
2687	BOXELDER	*ACER NEGUNDO*	23	FAIR	YES	NO	
2688	JACK PINE	*PINUS BANKSIANA*	11	GOOD	YES	NO	
2689	JACK PINE	*PINUS BANKSIANA*	10	GOOD	YES	NO	
2690	JACK PINE	*PINUS BANKSIANA*	14	GOOD	YES	NO	
2691	RED PINE	*PINUS RESINOSA*	12	FAIR	YES	NO	
2692	RED PINE	*PINUS RESINOSA*	12	FAIR	YES	NO	
2693	RED PINE	*PINUS RESINOSA*	11	FAIR	YES	NO	
2694	JACK PINE	*PINUS BANKSIANA*	12	FAIR	YES	NO	
2695	RED PINE	*PINUS RESINOSA*	11	FAIR	YES	NO	
2696	AMERICAN ELM	*ULMUS AMERICANA*	13	FAIR	YES	NO	
2697	RED PINE	*PINUS RESINOSA*	10	FAIR	YES	NO	
2698	RED PINE	*PINUS RESINOSA*	11	FAIR	YES	NO	
2699	RED PINE	*PINUS RESINOSA*	11	FAIR	YES	NO	
2700	EASTERN WHITE PINE	*PINUS STROBUS*	10	FAIR	YES	NO	

NEW LAKE ELMO ELEMENTARY SCHOOL

Stillwater Area Public Schools ISD #834
1875 Greeley Street South
Stillwater, MN 55082

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

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

CALYX DESIGN GROUP
Landscape Architecture
Planning
475 Cleveland Avenue N. | Suite 101A
Saint Paul, MN 55104
651.788.9018 | calyxdesigngroup.com

© 2024 CALYX Design Group, LLC. All rights reserved.

I hereby certify that this plan, specifications 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.

Benjamin D. Hartberg, PLA

Date: xx.xx.xxxx Lic. No.: 48084

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: HL
Check: BH

North

TREE PRESERVATION & MITIGATION SCHEDULES

L3.009

X:\Projects\2024 Projects\24-127 Lake Elmo Elementary School, Lake Elmo, MN\24127_LANDSCAPE_24-08 City Submittal_08-23-2024.dwg

MN

LANDOWNER PLANTED TREE

NATURALLY OCCURRING TREE

2701	EASTERN WHITE PINE	*PINUS STROBUS*	18	FAIR	YES	NO	
2702	JACK PINE	*PINUS BANKSIANA*	9	FAIR	YES	NO	
2703	RED PINE	*PINUS RESINOSA*	14	FAIR	YES	NO	
2704	RED PINE	*PINUS RESINOSA*	14	FAIR	YES	NO	
2705	RED PINE	*PINUS RESINOSA*	16	FAIR	YES	NO	
2706	RED PINE	*PINUS RESINOSA*	16	FAIR	YES	NO	
2707	RED PINE	*PINUS RESINOSA*	13	FAIR	YES	NO	
2708	RED PINE	*PINUS RESINOSA*	14	FAIR	YES	NO	
2709	RED PINE	*PINUS RESINOSA*	11	FAIR	YES	NO	
2710	RED PINE	*PINUS RESINOSA*	16	FAIR	YES	NO	
2711	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	NO	
2712	RED PINE	*PINUS RESINOSA*	16	FAIR	YES	NO	
2713	RED PINE	*PINUS RESINOSA*	11	FAIR	YES	NO	
2714	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	NO	
2715	RED PINE	*PINUS RESINOSA*	13	FAIR	YES	NO	
2716	SIBERIAN ELM	*ULMUS PUMILA*	20	FAIR	NO	NO	
2717	AMERICAN ELM	*ULMUS AMERICANA*	19	GOOD	YES	NO	
2718	RED CEDAR	*JUNIPERUS VIRGINIANA*	17	FAIR	YES	NO	
2719	RED CEDAR	*JUNIPERUS VIRGINIANA*	17	FAIR	YES	NO	
2720	RED PINE	*PINUS RESINOSA*	18	FAIR	YES	NO	
2721	EASTERN WHITE PINE	*PINUS STROBUS*	22	FAIR	YES	NO	
2722	EASTERN WHITE PINE	*PINUS STROBUS*	28	FAIR	YES	NO	
2723	RED PINE	*PINUS RESINOSA*	14	FAIR	YES	NO	
2724	RED PINE	*PINUS RESINOSA*	12	FAIR	YES	NO	
2725	RED PINE	*PINUS RESINOSA*	10	FAIR	YES	NO	
2726	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	NO	
2727	RED PINE	*PINUS RESINOSA*	10	FAIR	YES	NO	
2728	RED PINE	*PINUS RESINOSA*	10	FAIR	YES	NO	
2729	RED PINE	*PINUS RESINOSA*	13	FAIR	YES	NO	
2730	JACK PINE	*PINUS BANKSIANA*	10	FAIR	YES	NO	
2731	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	NO	
2732	RED PINE	*PINUS RESINOSA*	11	FAIR	YES	NO	
2733	RED PINE	*PINUS RESINOSA*	11	FAIR	YES	NO	
2734	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	NO	
2735	JACK PINE	*PINUS BANKSIANA*	8	FAIR	YES	NO	
2736	JACK PINE	*PINUS BANKSIANA*	9	FAIR	YES	NO	
2737	RED PINE	*PINUS RESINOSA*	12	FAIR	YES	NO	
2738	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	NO	
2739	RED PINE	*PINUS RESINOSA*	14	FAIR	YES	NO	
2740	RED PINE	*PINUS RESINOSA*	11	FAIR	YES	NO	
2741	RED PINE	*PINUS RESINOSA*	12	FAIR	YES	NO	
2742	RED PINE	*PINUS RESINOSA*	12	FAIR	YES	NO	
2743	RED PINE	*PINUS RESINOSA*	12	FAIR	YES	NO	
2744	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	NO	
2745	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	NO	
2746	RED PINE	*PINUS RESINOSA*	10	FAIR	YES	NO	
2747	RED PINE	*PINUS RESINOSA*	11	FAIR	YES	NO	
2748	RED PINE	*PINUS RESINOSA*	12	FAIR	YES	NO	
2749	RED PINE	*PINUS RESINOSA*	12	FAIR	YES	NO	
2750	RED PINE	*PINUS RESINOSA*	13	FAIR	YES	NO	
2751	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	NO	
2752	RED PINE	*PINUS RESINOSA*	11	FAIR	YES	NO	
2753	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	NO	
2754	RED PINE	*PINUS RESINOSA*	13	FAIR	YES	NO	
2755	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	NO	
2756	RED PINE	*PINUS RESINOSA*	13	FAIR	YES	NO	
2757	RED PINE	*PINUS RESINOSA*	12	FAIR	YES	NO	
2758	RED PINE	*PINUS RESINOSA*	13	FAIR	YES	NO	
2759	RED PINE	*PINUS RESINOSA*	11	FAIR	YES	NO	
2760	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	NO	
2761	RED PINE	*PINUS RESINOSA*	11	FAIR	YES	NO	
2762	RED PINE	*PINUS RESINOSA*	11	FAIR	YES	NO	
2763	RED PINE	*PINUS RESINOSA*	12	FAIR	YES	NO	
2764	RED PINE	*PINUS RESINOSA*	12	FAIR	YES	NO	
2765	RED PINE	*PINUS RESINOSA*	14	FAIR	YES	NO	
2766	RED PINE	*PINUS RESINOSA*	16	FAIR	YES	NO	
2767	JACK PINE	*PINUS BANKSIANA*	9	FAIR	YES	NO	
2768	JACK PINE	*PINUS BANKSIANA*	10	FAIR	YES	YES	
2769	JACK PINE	*PINUS BANKSIANA*	10	FAIR	YES	YES	
2770	SIBERIAN ELM	*ULMUS PUMILA*	34	FAIR	NO	YES	
2771	JACK PINE	*PINUS BANKSIANA*	10	FAIR	YES	YES	
2772	COMMON HACKBERRY	*CELTIS OCCIDENTALIS*	12	FAIR	YES	YES	
2773	SIBERIAN ELM	*ULMUS PUMILA*	16	GOOD	NO	YES	
2774	BLACK CHERRY	*PRUNUS SEROTINA*	13	FAIR	YES	YES	
2775	JACK PINE	*PINUS BANKSIANA*	11	FAIR	YES	NO	
2776	JACK PINE	*PINUS BANKSIANA*	10	FAIR	YES	NO	
2777	JACK PINE	*PINUS BANKSIANA*	11	FAIR	YES	NO	
2778	JACK PINE	*PINUS BANKSIANA*	8	FAIR	YES	NO	
2779	JACK PINE	*PINUS BANKSIANA*	8	FAIR	YES	YES	
2780	COMMON HACKBERRY	*CELTIS OCCIDENTALIS*	16	FAIR	YES	YES	
2781	JACK PINE	*PINUS BANKSIANA*	11	FAIR	YES	YES	
2782	SCOTCH PINE	*PINUS SYLVESTRIS*	11	FAIR	YES	YES	
2783	RED PINE	*PINUS RESINOSA*	11	FAIR	YES	YES	
2784	SCOTCH PINE	*PINUS SYLVESTRIS*	11	FAIR	YES	YES	
2785	RED PINE	*PINUS RESINOSA*	10	FAIR	YES	YES	
2786	RED PINE	*PINUS RESINOSA*	10	FAIR	YES	YES	
2787	RED PINE	*PINUS RESINOSA*	10	FAIR	YES	YES	
2788	SCOTCH PINE	*PINUS SYLVESTRIS*	9	FAIR	YES	YES	
2789	RED PINE	*PINUS RESINOSA*	10	FAIR	YES	YES	
2790	RED PINE	*PINUS RESINOSA*	10	FAIR	YES	YES	
2791	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2792	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2793	RED PINE	*PINUS RESINOSA*	10	FAIR	YES	YES	
2794	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2795	RED PINE	*PINUS RESINOSA*	10	FAIR	YES	YES	
2796	SIBERIAN ELM	*ULMUS PUMILA*	19	FAIR	NO	YES	
2797	SCOTCH PINE	*PINUS SYLVESTRIS*	9	FAIR	YES	YES	
2798	SCOTCH PINE	*PINUS SYLVESTRIS*	9	FAIR	YES	YES	
2799	SCOTCH PINE	*PINUS SYLVESTRIS*	8	FAIR	YES	YES	
2800	SIBERIAN ELM	*ULMUS PUMILA*	13	FAIR	NO	YES	
2801	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2802	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2803	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2804	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2805	RED PINE	*PINUS RESINOSA*	11	FAIR	YES	YES	
2806	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2807	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2808	SIBERIAN ELM	*ULMUS PUMILA*	17	FAIR	NO	YES	
2809	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2810	SIBERIAN ELM	*ULMUS PUMILA*	13	FAIR	NO	YES	
2811	SIBERIAN ELM	*ULMUS PUMILA*	19	FAIR	NO	YES	
2812	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2813	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2814	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2815	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2816	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2817	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2818	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2819	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2820	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2821	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2822	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2823	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2824	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2825	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2826	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2827	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2828	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2829	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2830	SCOTCH PINE	*PINUS SYLVESTRIS*	8	FAIR	YES	YES	
2831	SCOTCH PINE	*PINUS SYLVESTRIS*	8	FAIR	YES	YES	
2832	SCOTCH PINE	*PINUS SYLVESTRIS*	8	FAIR	YES	YES	
2833	SCOTCH PINE	*PINUS SYLVESTRIS*	12	FAIR	YES	YES	
2834	SCOTCH PINE	*PINUS SYLVESTRIS*	8	FAIR	YES	YES	
2835	SCOTCH PINE	*PINUS SYLVESTRIS*	9	FAIR	YES	YES	
2836	SCOTCH PINE	*PINUS SYLVESTRIS*	12	FAIR	YES	YES	
2837	SCOTCH PINE	*PINUS SYLVESTRIS*	12	FAIR	YES	YES	
2838	SCOTCH PINE	*PINUS SYLVESTRIS*	9	FAIR	YES	YES	
2839	SCOTCH PINE	*PINUS SYLVESTRIS*	8	FAIR	YES	YES	
2840	SCOTCH PINE	*PINUS SYLVESTRIS*	9	FAIR	YES	YES	
2841	SCOTCH PINE	*PINUS SYLVESTRIS*	10	FAIR	YES	YES	
2842	SCOTCH PINE	*PINUS SYLVESTRIS*	20	FAIR	YES	YES	
2843	SCOTCH PINE	*PINUS SYLVESTRIS*	20	FAIR	YES	YES	
2844	JACK PINE	*PINUS BANKSIANA*	13	FAIR	YES	YES	
2845	SCOTCH PINE	*PINUS SYLVESTRIS*	12	FAIR	YES	YES	
2846	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2847	RED PINE	*PINUS RESINOSA*	10	FAIR	YES	YES	
2848	RED PINE	*PINUS RESINOSA*	25	FAIR	YES	YES	
2849	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2850	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2851	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2852	RED PINE	*PINUS RESINOSA*	10	FAIR	YES	YES	
2853	RED PINE	*PINUS RESINOSA*	10	FAIR	YES	YES	
2854	SCOTCH PINE	*PINUS SYLVESTRIS*	8	FAIR	YES	YES	
2855	SCOTCH PINE	*PINUS SYLVESTRIS*	8	FAIR	YES	YES	
2856	SCOTCH PINE	*PINUS SYLVESTRIS*	12	FAIR	YES	YES	
2857	SCOTCH PINE	*PINUS SYLVESTRIS*	8	FAIR	YES	YES	
2858	SCOTCH PINE	*PINUS SYLVESTRIS*	8	FAIR	YES	YES	
2859	SCOTCH PINE	*PINUS SYLVESTRIS*	8	FAIR	YES	YES	
2860	SCOTCH PINE	*PINUS SYLVESTRIS*	8	FAIR	YES	YES	
2861	JACK PINE	*PINUS BANKSIANA*	8	FAIR	YES	YES	
2862	SCOTCH PINE	*PINUS SYLVESTRIS*	8	FAIR	YES	YES	
2863	SCOTCH PINE	*PINUS SYLVESTRIS*	8	FAIR	YES	YES	
2864	SCOTCH PINE	*PINUS SYLVESTRIS*	10	FAIR	YES	YES	
2865	SCOTCH PINE	*PINUS SYLVESTRIS*	8	FAIR	YES	YES	
2866	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2867	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2868	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2869	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2870	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2871	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2872	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2873	SCOTCH PINE	*PINUS SYLVESTRIS*	11	FAIR	YES	YES	
2874	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2875	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2876	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
2877	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
2878	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2879	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2880	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2881	RED PINE	*PINUS RESINOSA*	10	FAIR	YES	YES	
2882	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2883	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2884	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2885	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
2886	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
2887	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
2888	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
2889	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
2890	SIBERIAN ELM	*ULMUS PUMILA*	12	GOOD	NO	YES	
2891	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
2892	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
2893	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
2894	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
2895	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
2896	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
2897	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
2898	RED PINE	*PINUS RESINOSA*	9	GOOD	YES	YES	
2899	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2900	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2901	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2902	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2903	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2904	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2905	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2906	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2907	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2908	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2909	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2910	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2911	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2912	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2913	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2914	RED PINE	*PINUS RESINOSA*	10	FAIR	YES	YES	
2915	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2916	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2917	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2918	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2919	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2920	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2921	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2922	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2923	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2924	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2925	RED PINE	*PINUS RESINOSA*	11	FAIR	YES	YES	
2926	RED PINE	*PINUS RESINOSA*	10	FAIR	YES	YES	
2927	RED PINE	*PINUS RESINOSA*	10	FAIR	YES	YES	
2928	RED PINE	*PINUS RESINOSA*	11	FAIR	YES	YES	
2929	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2930	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2931	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2932	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2933	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2934	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2935	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2936	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2937	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2938	RED PINE	*PINUS RESINOSA*	10	FAIR	YES	YES	
2939	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2940	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2941	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2942	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2943	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2944	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2945	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2946	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2947	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2948	RED PINE	*PINUS RESINOSA*	11	FAIR	YES	YES	
2949	RED PINE	*PINUS RESINOSA*	12	FAIR	YES	YES	
2950	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2951	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2952	RED PINE	*PINUS RESINOSA*	10	FAIR	YES	YES	
2953	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2954	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2955	JACK PINE	*PINUS BANKSIANA*	8	FAIR	YES	YES	
2956	RED PINE	*PINUS RESINOSA*	11	FAIR	YES	YES	
2957	RED PINE	*PINUS RESINOSA*	11	GOOD	YES	YES	
2958	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
2959	RED PINE	*PINUS RESINOSA*	8	GOOD	YES	YES	
2960	RED PINE	*PINUS RESINOSA*	10	GOOD	YES	YES	
2961	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2962	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2963	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2964	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2965	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2966	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2967	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2968	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2969	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2970	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2971	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2972	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2973	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2974	RED PINE	*PINUS RESINOSA*	10	FAIR	YES	YES	
2975	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2976	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2977	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2978	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2979	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2980	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2981	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2982	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2983	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2984	RED PINE	*PINUS RESINOSA*	11	FAIR	YES	YES	
2985	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2986	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2987	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2988	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2989	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2990	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2991	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2992	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2993	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	YES	
2994	RED PINE	*PINUS RESINOSA*	10	FAIR	YES	YES	
2995	RED PINE	*PINUS RESINOSA*	11	FAIR	YES	YES	
2996	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2997	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2998	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
2999	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
3000	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	

NEW LAKE ELMO ELEMENTARY SCHOOL

Stillwater Area Public Schools ISD #834
1875 Greeley Street South
Stillwater, MN 55082

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

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

CALYX DESIGN GROUP
Landscape Architecture
Planning
475 Cleveland Avenue N. | Suite 101A
Saint Paul, MN 55104
651.788.9018 | calyxdesigngroup.com

© 2024 CALYX Design Group, LLC. All rights reserved.

I hereby certify that this plan, specifications 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.

Benjamin D. Hartberg, PLA

Date: xx.xx.xxxx Lic. No.: 48084

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: HL
Check: BH

North

TREE PRESERVATION & MITIGATION SCHEDULES

L3.010

X:\Projects\2024 Projects\24-127 Lake Elmo Elementary School, Lake Elmo, MN\24127_LANDSCAPE_24-08 City Submittal_08-23-2024.dwg

MN

3001	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
3002	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
3003	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
3004	RED PINE	*PINUS RESINOSA*	11	FAIR	YES	YES	
3005	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	YES	
3006	RED PINE	*PINUS RESINOSA*	10	FAIR	YES	YES	
3007	RED PINE	*PINUS RESINOSA*	10	FAIR	YES	YES	
3008	RED PINE	*PINUS RESINOSA*	11	FAIR	YES	YES	
3009	JACK PINE	*PINUS BANKSIANA*	10	FAIR	YES	NO	
3010	JACK PINE	*PINUS BANKSIANA*	10	FAIR	YES	NO	
3011	SIBERIAN ELM	*ULMUS PUMILA*	12	FAIR	NO	NO	
3012	SIBERIAN ELM	*ULMUS PUMILA*	24	FAIR	NO	NO	
3013	BOXELDER	*ACER NEGUNDO*	20	FAIR	NO	NO	
3014	SCOTCH PINE	*PINUS SYLVESTRIS*	9	FAIR	YES	NO	
3015	SCOTCH PINE	*PINUS SYLVESTRIS*	12	FAIR	YES	NO	
3016	SCOTCH PINE	*PINUS SYLVESTRIS*	12	FAIR	YES	NO	
3017	NORWAY SPRUCE	*PICEA ABIES*	9	GOOD	YES	NO	
3018	SCOTCH PINE	*PINUS SYLVESTRIS*	9	GOOD	YES	NO	
3019	EASTERN WHITE PINE	*PINUS STROBUS*	14	GOOD	YES	NO	
3020	GREEN ASH	*FRAXINUS PENNSYLVANICA*	14	GOOD	YES	NO	
3021	RED PINE	*PINUS RESINOSA*	12	FAIR	YES	NO	
3022	RED PINE	*PINUS RESINOSA*	11	FAIR	YES	NO	
3023	RED PINE	*PINUS RESINOSA*	11	FAIR	YES	NO	
3024	RED PINE	*PINUS RESINOSA*	10	FAIR	YES	NO	
3025	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	NO	
3026	RED PINE	*PINUS RESINOSA*	10	FAIR	YES	NO	
3027	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	NO	
3028	RED PINE	*PINUS RESINOSA*	11	FAIR	YES	NO	
3029	NORWAY SPRUCE	*PICEA ABIES*	10	FAIR	YES	NO	
3030	SIBERIAN ELM	*ULMUS PUMILA*	17	FAIR	NO	NO	
3031	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	NO	
3032	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	NO	
3033	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	NO	
3034	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	NO	
3035	RED PINE	*PINUS RESINOSA*	8	FAIR	YES	NO	
3036	BOXELDER	*ACER NEGUNDO*	28	FAIR	NO	NO	
3037	SIBERIAN ELM	*ULMUS PUMILA*	15	FAIR	NO	NO	
3038	SIBERIAN ELM	*ULMUS PUMILA*	23	FAIR	NO	NO	
3039	SIBERIAN ELM	*ULMUS PUMILA*	16	FAIR	NO	NO	
3040	SIBERIAN ELM	*ULMUS PUMILA*	17	FAIR	NO	NO	
3041	SIBERIAN ELM	*ULMUS PUMILA*	22	FAIR	NO	NO	
3042	SIBERIAN ELM	*ULMUS PUMILA*	18	FAIR	NO	NO	
3043	SIBERIAN ELM	*ULMUS PUMILA*	19	FAIR	NO	NO	
3044	SIBERIAN ELM	*ULMUS PUMILA*	18	FAIR	NO	NO	
3045	BLACK CHERRY	*PRUNUS SEROTINA*	7	FAIR	YES	NO	
3046	BLACK CHERRY	*PRUNUS SEROTINA*	9	FAIR	YES	NO	
3047	BUR OAK	*QUERCUS MACROCARPA*	8	GOOD	YES	NO	
3048	SCOTCH PINE	*PINUS SYLVESTRIS*	15	FAIR	YES	NO	
3049	SIBERIAN ELM	*ULMUS PUMILA*	13	FAIR	NO	NO	
3050	AMERICAN ELM	*ULMUS AMERICANA*	12	GOOD	YES	NO	
3051	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	NO	
3052	BOXELDER	*ACER NEGUNDO*	20	FAIR	NO	NO	
3053	BOXELDER	*ACER NEGUNDO*	17	FAIR	NO	NO	
3054	BLACK CHERRY	*PRUNUS SEROTINA*	11	FAIR	YES	NO	
3055	BOXELDER	*ACER NEGUNDO*	12	FAIR	NO	NO	
3056	QUAKING ASPEN	*POPULUS TREMULOIDES*	17	FAIR	YES	NO	
3057	QUAKING ASPEN	*POPULUS TREMULOIDES*	23	FAIR	YES	NO	
3058	GREEN ASH	*FRAXINUS PENNSYLVANICA*	14	FAIR	YES	NO	
3059	AMERICAN ELM	*ULMUS AMERICANA*	18	FAIR	YES	NO	
3060	QUAKING ASPEN	*POPULUS TREMULOIDES*	13	FAIR	YES	NO	
3061	QUAKING ASPEN	*POPULUS TREMULOIDES*	14	FAIR	YES	NO	
3062	QUAKING ASPEN	*POPULUS TREMULOIDES*	12	FAIR	YES	NO	
3063	QUAKING ASPEN	*POPULUS TREMULOIDES*	12	FAIR	YES	NO	
3064	QUAKING ASPEN	*POPULUS TREMULOIDES*	12	FAIR	YES	NO	
3065	QUAKING ASPEN	*POPULUS TREMULOIDES*	13	FAIR	YES	NO	
3066	QUAKING ASPEN	*POPULUS TREMULOIDES*	16	FAIR	YES	YES	
3067	QUAKING ASPEN	*POPULUS TREMULOIDES*	13	FAIR	YES	YES	
3068	QUAKING ASPEN	*POPULUS TREMULOIDES*	14	FAIR	YES	YES	
3069	AMERICAN ELM	*ULMUS AMERICANA*	12	FAIR	YES	YES	
3070	QUAKING ASPEN	*POPULUS TREMULOIDES*	12	FAIR	YES	YES	
3071	QUAKING ASPEN	*POPULUS TREMULOIDES*	12	FAIR	YES	YES	
3072	BLACK CHERRY	*PRUNUS SEROTINA*	9	FAIR	YES	YES	
3073	BLACK CHERRY	*PRUNUS SEROTINA*	9	FAIR	YES	YES	
3074	BLACK CHERRY	*PRUNUS SEROTINA*	11	FAIR	YES	YES	
3075	RED PINE	*PINUS RESINOSA*	10	FAIR	YES	NO	
3076	BOXELDER	*ACER NEGUNDO*	19	FAIR	NO	NO	
3077	RED PINE	*PINUS RESINOSA*	9	FAIR	YES	NO	
3078	BOXELDER	*ACER NEGUNDO*	13	FAIR	NO	NO	
3079	SIBERIAN ELM	*ULMUS PUMILA*	15	FAIR	NO	NO	
3080	RED PINE	*PINUS RESINOSA*	12	FAIR	YES	NO	
3081	RED PINE	*PINUS RESINOSA*	12	FAIR	YES	NO	
3082	QUAKING ASPEN	*POPULUS TREMULOIDES*	13	FAIR	YES	YES	
3083	QUAKING ASPEN	*POPULUS TREMULOIDES*	12	FAIR	YES	YES	

		Caliper Inches
	Total Existing Significant Inches	29,296
	Inignificant Inches (Amur Maple, Boxelder, Cottonwood, Siberian Elm)	1,338
	Total Inches in GOOD Condition	20,614
	Total Inches in FAIR Condition	10,020
	Total Significant Inches Removed	21,392
	Total Inches ASSUMED Planted by Previous Owner	27,327
	Removed Inches ASSUMED Planted by Previous Owner	20,653
	Preserved Inches ASSUMED Planted by Previous Owner	6,674
	30% Allowed Permittal Removal	591
	Replacement Inches Required	149
	Replacement Inches Proposed	

CALYX
CALYX DESIGN GROUP
LANDSCAPE ARCHITECTURE

City of Lake Elmo Tree Preservation Policy
§ 154.250 PURPOSE

Significant Tree. A healthy tree measuring a minimum of six (6) inches in diameter for hardwood deciduous trees, eight (8) inches in diameter for coniferous/evergreen trees, or twelve (12) inches in diameter for common trees, as defined herein.

Deciduous Hardwood Tree. Includes Birch, Cherry, Hickory, Ironwood, Hard Maples, Oak and Walnut.
Common Tree. Includes Ash, Aspen, Basswood, Box Elder, Catalpa, Cottonwood, Elm, Hackberry, Locust, Poplar, Silver Maple, Willow and any other tree not defined as a hardwood deciduous tree or a coniferous/evergreen tree.

Coniferous/Evergreen Tree. A wood plant, which, at maturity, is at least twelve (12) feet or more in height, having foliage on the outermost portion of the branches year-round. Tamaracks are included as a coniferous tree species.

Also included are noxious or invasive trees such as Amur Maple, Japanese Barberry, Russian Olive, Siberian Elm, Buckthorn, Boxelder, and Cottonwood.

LANDOWNER PLANTED TREE

NATURALLY OCCURRING TREE

811 Know what's below. Call before you dig.

CONTRACTOR(S) ARE RESPONSIBLE FOR OBTAINING UTILITY LOCATES, INCLUDE PRIVATE UTILITIES SUCH AS PHONE AND CABLE. CALL NO LESS THAN 48 HOURS IN ADVANCE.

NEW LAKE ELMO ELEMENTARY SCHOOL

Stillwater Area Public Schools ISD #834
1875 Greeley Street South
Stillwater, MN 55082

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

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

CALYX DESIGN GROUP
Landscape Architecture
Planning
475 Cleveland Avenue N. | Suite 101A
Saint Paul, MN 55104
651.788.9018 | calyxdesigngroup.com

© 2024 CALYX Design Group, LLC. All rights reserved.

I hereby certify that this plan, specifications 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.

Benjamin D. Hartberg, PLA
Date: xx.xx.xxxx Lic. No.: 48084

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: HL
Check: BH
North

TREE PRESERVATION & MITIGATION SCHEDULES

L3.011

X:\Projects\2024 Projects\24-127 Lake Elmo Elementary School, Lake Elmo, MN\24127_LANDSCAPE_24x36 City Submittal_08-23-2024.dwg

MN

811 Know what's below. Call before you dig.

CONTRACTOR(S) ARE RESPONSIBLE FOR OBTAINING UTILITY LOCATES, INCLUDE PRIVATE UTILITIES SUCH AS PHONE AND CABLE. CALL NO LESS THAN 48 HOURS IN ADVANCE.

0 75' 150'

SCALE: 1" = 75'-0"

NORTH

Irrigation Note:

All turf seeded, turf sodded, and perennial planting areas to receive irrigation from a high-efficiency permanent irrigation system. Final system layout to be provided in the Permit Set.

Irrigation Performance Notes:

1. IRRIGATION SYSTEM SHOULD AVERAGE 40(+/-) PSI AT THE BASE OF ALL SPRINKLER HEADS. NOTIFY LANDSCAPE ARCHITECT IF EXISTING PRESSURE DIFFERS. BUILDING PRESSURE IS NOT KNOWN.
2. THE CONTRACTOR MAY MAKE MINOR ADJUSTMENTS TO THE LOCATION AND SPACING AS NECESSARY TO ACCOMMODATE ACTUAL FIELD CONDITIONS. HEAD LOCATIONS SHALL BE FLAGGED AND REVIEWED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
3. COORDINATE SLEEVING AND IRRIGATION PIPE / HEAD / INTERNAL PLUMBING INSTALLATION WITH THE WORK OF OTHERS.
4. ALL MATERIALS SHALL BE INSTALLED AS DETAILED ON DRAWINGS. (HOWEVER, IF THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS DO NOT THOROUGHLY DESCRIBE THE METHOD OR TECHNIQUES TO BE USED, THE CONTRACTOR SHALL FOLLOW THE INSTALLATION METHODS ISSUED BY THE MANUFACTURE. ALL SUCH LITERATURE MUST BE SUBMITTED 48 HOURS PRIOR TO INSTALLATION FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT.)
5. CHECK AND VERIFY ALL EXISTING AND PROPOSED SITE CONDITIONS, UTILITIES, AND SERVICES PRIOR TO TRENCHING.
6. LATERAL PIPING TO BE A MINIMUM OF 12 INCHES DEEP AND MAINLINES A MINIMUM OF 18 INCHES DEEP.
7. ALL MAIN LINE PIPING AND LATERAL PIPE OF 1-1/2" AND LARGER SHALL BE PVC (SDR 26 / CLASS 160), HOWEVER THE IRRIGATION FEED FROM THE BUILDING INTO THE LANDSCAPE SHALL BE COPPER. ALL OTHER LATERAL PIPE OF 1-1/4" AND SMALLER MAY BE POLYETHYLENE.
8. ALL TEES AND ELBOWS SHALL BE PVC (160 PSI). INCLUDE THRUST BLOCKING AT TEE AND ELBOW POINTS.
9. ALL SPRINKLERS SHALL BE AS NOTED ON DETAIL & SPECIFICATION.
10. ADJUST HEADS FOR GRADE, AS NECESSARY, AFTER TURF GRASS HAS BEEN ESTABLISHED AND ALL SETTLEMENT AT HEADS HAS OCCURRED.
11. ALL AUTOMATIC CONTROLLERS, RISERS, BACKFLOW PREVENTERS AND HOSE BIBS SHALL BE SET PLUM. SPRINKLER HEAD RISERS, QUICK COUPLER VALVES AND ALL VALVES WITH STEMS SHALL BE SET PERPENDICULAR TO FINISHED GRADE.
12. CONTROL VALVE WIRES, INCLUDING THE GROUND WIRE, SHALL BE #12 GAUGE U.F.U.L. APPROVED DIRECT BURIAL. UNDERGROUND CONNECTIONS SHALL BE MADE WITH 3-M WIRE CONNECTORS (DBY) OR APPROVED EQUAL.
13. TRACER-WIRE IS TO BE PLACED OVER ALL MAIN AND LATERAL LINES.
14. PLACE ALL VALVES IN APPROVED VALVE BOXES.
15. USE TEFLON TAPE ON ALL THREADED JOINTS.
16. BRAND EACH VALVE BOX WITH 2" HIGH LETTERING SHOWING ZONE NUMBER AND CONTROLLER LETTER (EXAMPLE 'A3'). THIS STAMP IS TO MATCH THE ZONE SHOWN ON THE PLAN UNLESS OTHERWISE DIRECTED BY LANDSCAPE ARCHITECT.
17. CONDUCT PERFORMANCE TEST IN THE PRESENCE OF OWNER AND LANDSCAPE ARCHITECT FOLLOWING COMPLETION OF SYSTEM INSTALLATION.
18. CONDUCT AND DEMONSTRATE WINTERIZATION AND SPRING START-UP PROCESS TO OWNER IN THE FALL OF COMPLETION.
19. LANDSCAPE ARCHITECT SHALL BE NOTIFIED TO VERIFY TRENCH DEPTHS BEFORE BACKFILLING.
20. IRRIGATION CONTRACTOR TO COORDINATE MECHANICAL ROOM WATER CONNECTION POINT WITH MECHANICAL ENGINEER AND PLUMBING CONTRACTOR.
21. AFTER INSTALLATION OF DRIP IRRIGATION PIPE IS COMPLETE AND PRIOR TO SODDING OR MULCH INSTALLATION, THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT TO REVIEW THE INSTALLATION OF THE DRIP IRRIGATION SYSTEM.
22. LANDSCAPE CONTRACTOR TO ADJUST HEADS IN THE FIELD TO ENSURE WATER DOES NOT SPRAY THE BUILDING FACE OR PAVED AREAS.
23. COORDINATE LOCATION OF ROOFTOP-MOUNTED ATMOSPHERIC MOISTURE (RAIN) SENSOR WITH OWNER AND ARCHITECT.
24. COORDINATE LOCATION OF SLEEVING UNDER PAVED AREAS WITH GENERAL CONTRACTOR, EARTHWORK, AND PAVING SUB-CONTRACTORS.
25. SUBMIT LAYOUT PLAN AND PRODUCT DATA TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
26. IRRIGATION BID SHALL INCLUDE (1) FALL SHUT-DOWN AND (1) SPRING START-UP (SPRING OF THE YEAR FOLLOWING INSTALLATION).
27. THIS PROJECT WILL USE HUNTER COMMERCIAL IRRIGATION PRODUCTS.
28. PROVIDE THE OWNER WITH MANUFACTURER'S INSTRUCTION MANUAL FOR CONTROLLER. POST IRRIGATION ZONE LAYOUT MAP AT 8"x10" NEXT TO THE CONTROLLER FOR REFERENCE.
29. PROVIDE THE OWNER WITH AN AS-BUILT PLAN (PAPER AND CAD .DWG) UPON COMPLETION OF INSTALLATION.

NEW LAKE ELMO ELEMENTARY SCHOOL

Stillwater Area Public Schools ISD #834
1875 Greeley Street South
Stillwater, MN 55082

Wold

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

Larson Engineering, Inc.
3524 Labore Road
White Bear Lake, MN 55110
651.481.9120 (f) 651.481.9201
www.larsonengr.com

© 2024 Larson Engineering, Inc. All rights reserved.

CALYX DESIGN GROUP
Landscape Architecture
Planning
475 Cleveland Avenue N. | Suite 101A
Saint Paul, MN 55104
651.788.9018 | calyxdesigngroup.com

© 2024 CALYX Design Group, LLC. All rights reserved.

I hereby certify that this plan, specifications 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.

Benjamin D. Hartberg, PLA

Date: xx.xx.xxxx Lic. No.: 48084

Revisions		
Description	Date	Num

Comm: 12236128
Date: 08-23-2024
Drawn: HL
Check: BH

North

IRRIGATION PERFORMANCE PLAN

L4.000

X:\Projects\2024 Projects\24-127 Lake Elmo Elementary School, Lake Elmo, MN\24127_LANDSCAPE_24x36 City Submittal_08-23-2024.dwg

Memorandum

SRF No. 17789

To: Stillwater Area Public Schools

From: Brent Clark, PE, Project Manager
Eric Wurst, EIT, Traffic Engineer I

Date: August 1, 2024

Subject: New Lake Elmo Elementary School & Oak-Land Middle School Transportation Study

Introduction

SRF has completed a transportation study for the new proposed Lake Elmo Elementary School and additions to the existing Oak-Land Middle School (see Figure 1: Project Location). The proposed Elementary School, which is expected to replace the existing Lake Elmo Elementary School, is located in the northwest quadrant of the Lake Elmo Avenue North (CSAH 17) and 10th Street North (CSAH 10) intersection in the City of Lake Elmo, MN. The new elementary school, which is expected to open in Fall of 2026, is anticipated to have approximately 1,100 students and 130 staff members. The existing Oak-Land Middle School is located in the southwest quadrant of the Manning Avenue North (CSAH 15) and 10th Street North (CSAH 10) intersection. Planned renovations include a proposed 16,000 square foot gymnasium and a 29,500 square foot classroom addition. The capacity of the school is expected to increase from 950 to 1,250 students with 125 total staff.

Therefore, the main objectives of the transportation study are to review existing operations within the study area, evaluate transportation impacts to the adjacent roadway network based on the new elementary school and additions to the middle school, and recommend any necessary improvements to provide safe and efficient operations for all modes of transportation. The following information provides the assumptions, analysis, and recommendations offered for consideration.

Existing Conditions

Existing conditions were reviewed to identify any existing operational and/or safety issues within the study area. The evaluation of existing conditions included various data collection efforts, including traffic data, roadway characteristics, pedestrian/bicycle facilities, crash history, school observations, and an intersection capacity analysis, which are summarized in the following sections.

SRF

Project Location

New Lake Elmo Elementary & Oak-Land Middle School Transportation Study

City of Lake Elmo

Figure 1

02417789
July 2024

Study Intersections

The following study intersections represent the primary focus of the transportation study. These intersections, categorized for each respective school, were identified through discussions with the project team as they relate to potential school impacts, as well as future area infrastructure needs.

Lake Elmo Elementary School:

- 10th Street North (CSAH 10)/Keats Avenue North (CSAH 19)
- 10th Street North (CSAH 10)/Lake Elmo Avenue North (CSAH 17)
- Lake Elmo Avenue North (CSAH 17)/Hudson Boulevard

Oak-Land Middle School:

- Manning Avenue North (CSAH 15)/10th Street North (CSAH 10)
- Manning Avenue North (CSAH 15)/Oak-Land Middle School North Access
- Manning Avenue North (CSAH 15)/Oak-Land Middle School South Access

Traffic Data

SRF collected 24-hour vehicular and pedestrian/bicyclist turning movement counts at the study intersections on Thursday, May 23, 2024, while area schools were in session. The existing Oak-Land Middle School hours are currently between 7:50 a.m. and 2:20 p.m., and the peak hours of the study area are summarized below. Note that the school arrival peak hour coincides with the a.m. peak hour of the adjacent roadway, which is 7:00 a.m. to 8:00 a.m.

- **AM Peak Hour:** 7:00 a.m. to 8:00 a.m.
- **School Departure Peak Hour:** 2:00 p.m. to 3:00 p.m.
- **PM Peak Hour:** 4:00 p.m. to 5:00 p.m.

It should be noted that crack sealing construction was occurring along Manning Avenue during data collection efforts. While the construction resulted in sporadic lane/shoulder closures throughout the day, Manning Avenue remained open, and travel patterns were not expected to be impacted as a result of the construction. In addition, on-going construction along I-94 may be causing various regional traffic impacts between Oakdale and the St. Croix River, however, based on discussions with the county staff, the traffic volumes collected were considered representative of the study area.

Roadway Characteristics

A field assessment was completed to identify various roadway characteristics within the transportation system study area, such as functional classification, general configuration, and posted speed limit. A summary of these roadway characteristics is shown in Table 1. Note that these are general characteristics and that there are some deviations within the area or segments of the roadways. For example, Keats Avenue transitions from a 4-lane divided A-Minor Expander to a 2-lane divided local street north of 10th Avenue.

Table 1. Existing Roadway Characteristics

Roadway	Functional Classification (1)	General Configuration	Posted Speed Limit (mph)
10th Street (CSAH 10)	A Minor Reliever (2)	2-lane undivided	55
Manning Avenue (CSAH 15)	A Minor Expander	4-lane divided	55
Lake Elmo Avenue (CSAH 17)	Major Collector (3)	2-lane undivided	50/55 (5)
Keats Avenue (CSAH 19)	A Minor Expander (4)	4-lane divided (4)	55 (4)
Hudson Boulevard	Major Collector	2-lane undivided	50

(1) Functional Classification based on the *City of Lake Elmo's 2040 Comprehensive Plan*.
(2) Functional classification transitions from an A-Minor Reliever to a Minor Collector east of Manning Avenue.
(3) Functional classification transitions from a Major Collector to an 'Other Arterial' north of 10th Street.
(4) Keats Avenue transitions from 4-lane divided A Minor Expander with a speed limit of 55-mph to a 2-lane divided local street with a speed limit of 35-mph north of 10th Street.
(5) Speed limit change occurs north of Hudson Boulevard, with a posted speed limit of 55-mph to the north, and 50-mph to the south.

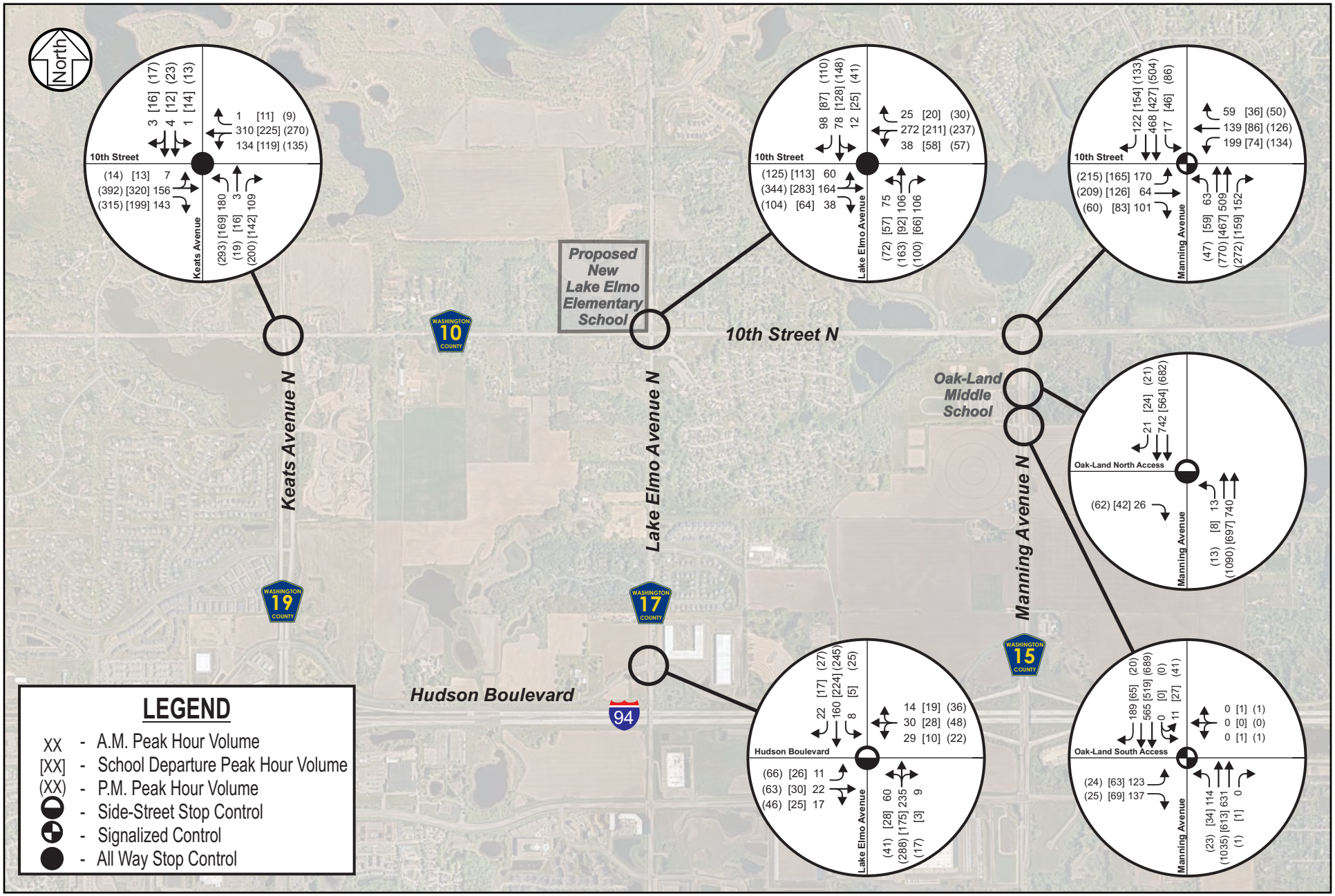
From a traffic control perspective, the Manning Avenue/10th Street and Manning Avenue/Oak-Land Middle School south access intersections are signalized, and the 10th Street/Keats Avenue and 10th Street/Lake Elmo Avenue intersections are unsignalized with all-way stop control. All other study intersections are unsignalized with side-street stop control. Existing geometrics, traffic controls, and traffic volumes in the study area are shown in Figure 2.

Pedestrian and Bicycle Facilities

A field assessment was completed to identify the current local and regional pedestrian/bicycle facilities within the study area and is illustrated in Figure 3. While Keats Avenue (CSAH 19) has an off-street trail that provides connectivity from Woodbury to the Lake Elmo Park Reserve, the rest of the study roadways generally lack off-street pedestrian/bicycle facilities. It should be noted that the high speeds (i.e. 55-mph) along these roadways likely deter most pedestrians and bicyclists from using the shoulder. In general, the nearby local neighborhood developments include internal pedestrian/bicycle facility networks. Given the close proximity of these residential neighborhoods to the two school sites, it is important to consider pedestrian/bicycle connectivity within the project area. Further discussion regarding pedestrian/bicycle considerations is provided later in this document.

Safety Analysis

A safety analysis was completed to understand any crash trends or geometric issues at the study intersections. The safety analysis was based on reported crashes using MnDOT's Crash Mapping Analysis Tool (MnCMAT2) from April 1, 2019, to March 31, 2024, which represents the most recent five-year period available. Results of the safety analysis are summarized below and shown in Figure 4, while detailed crash type/rate information is included in the Appendix.



SRF

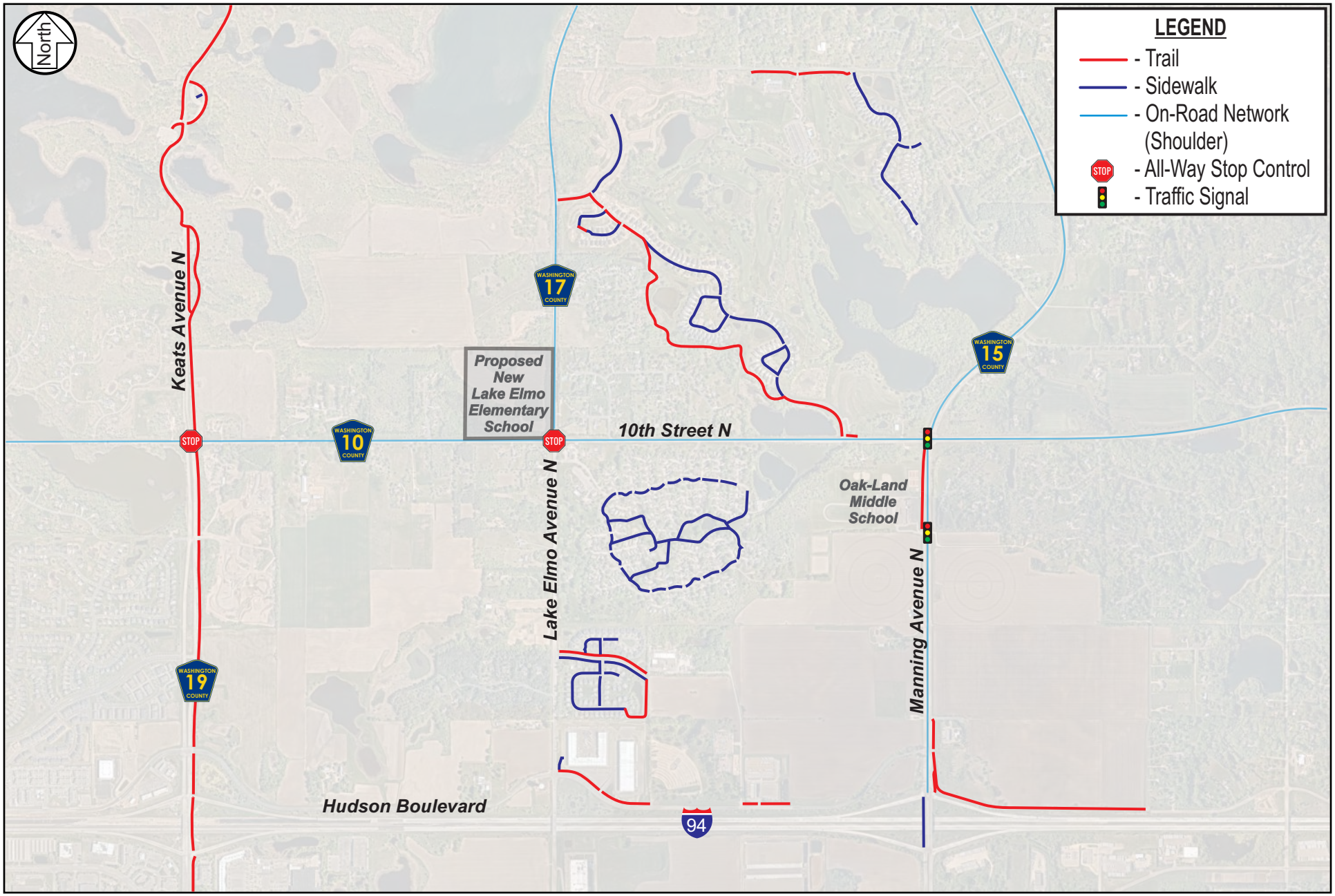
Existing Conditions

New Lake Elmo Elementary & Oak-Land Middle School Transportation Study

City of Lake Elmo

Figure 2

02417789
July 2024



SRF

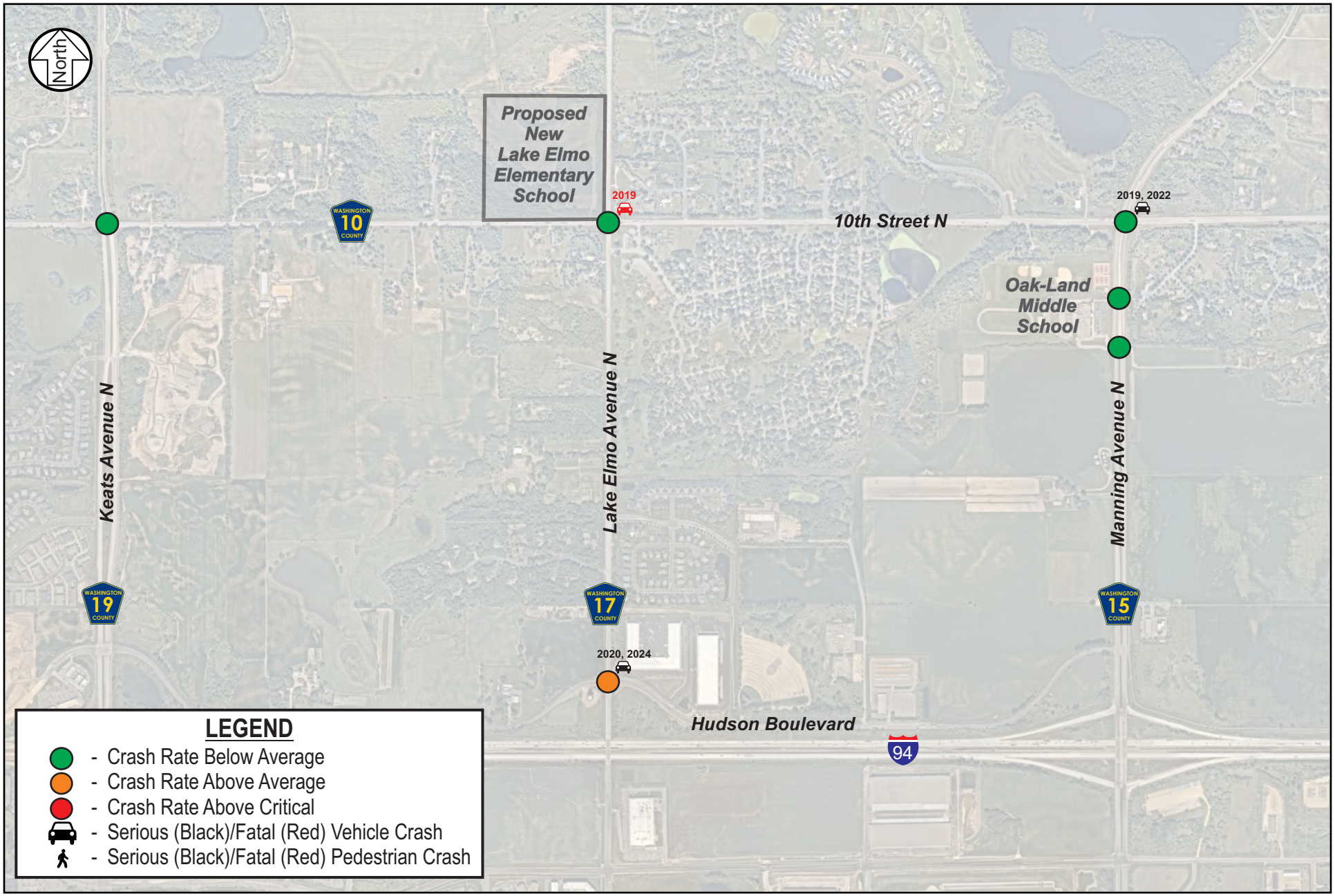
Existing Pedestrian and Bicycle Facilities

New Lake Elmo Elementary & Oak-Land Middle School Transportation Study

City of Lake Elmo

Figure 3

02417789
July 2024



SRF

Safety Analysis Summary (2019-2024)

New Lake Elmo Elementary & Oak-Land Middle School Transportation Study

City of Lake Elmo

Figure 4

02417789
July 2024

- There was a total of 24 crashes reported within the study area during the analysis period. The number of crashes ranged from a high of nine (9) crashes at the 10th Street/Lake Elmo Avenue intersection to a low of one (1) crash at the 10th Street/Keats Avenue and Manning Avenue/Oak-Land Middle School South Access intersections.
- In order to determine the significance of the crashes, crash rates were calculated for each intersection and compared to average crash rates published by MnDOT for intersections with similar characteristics (i.e., traffic control, traffic volumes, lighting, environment, etc.) A higher than average rate does not necessarily indicate a significant crash problem. Therefore, critical rates were calculated to determine the statistical significance. If the actual rates are below the critical rates, crashes that occurred may be due to the random nature of crashes and not necessarily a geometric design or traffic control issue. Based on the results of analysis, which is illustrated in Figure 4, no study intersections are above the critical crash rate, indicating that no study intersections have a statistically significant crash problem.
- It should be noted that one (1) fatal and four (4) serious injury crashes have occurred within the study area during the analysis period. Descriptions of the fatal/serious injury crashes, which are based on the police reports, are summarized below:
    - 10th Street/Lake Elmo Avenue – Fatal single vehicle run-off-road crash. Driver ran a stop sign at high speed, before exiting the roadway and hitting a tree. Based on the police report, the driver was intoxicated at the time of the crash.
    - Lake Elmo Avenue/Hudson Boulevard – Serious injury head-on crash. Driver crossed the centerline, colliding with oncoming traffic. Based on the police reports, drugs/alcohol may have played a role in the crash.
    - Lake Elmo Avenue/Hudson Boulevard – Serious injury angle crash. Side-street vehicle failed to observe right-of-way and pulled out into oncoming traffic.
    - 10th Street/Manning Avenue – Serious injury left-turn crash. Westbound left turning vehicle failed to yield to oncoming vehicle with green light.
    - 10th Street/Manning Avenue – Serious injury left-turn crash. Eastbound left turning vehicle failed to yield to oncoming vehicle with green light.
- All eight (8) of the multi-vehicle crashes that occurred at the 10th Street/Lake Elmo Avenue were the result of vehicles running the stop signs or failing to yield right-of-way.
- Six (6) of the seven (7) crashes at the Lake Elmo Avenue/Hudson Boulevard intersection were either minor injury or serious injury crashes, a majority of which were angle crashes.

Lake Elmo Elementary School Observations

SRF conducted observations of the parent pick-up/drop-off operations at the existing Lake Elmo Elementary School during the week of May 20th, 2024, to gather general trip rate information and assess potential storage needs for the new site. This data, along with queuing data from other schools and ITE trip generation standards, was important for estimating the operations expected at the relocated elementary school.

Oak-Land Middle School Observations

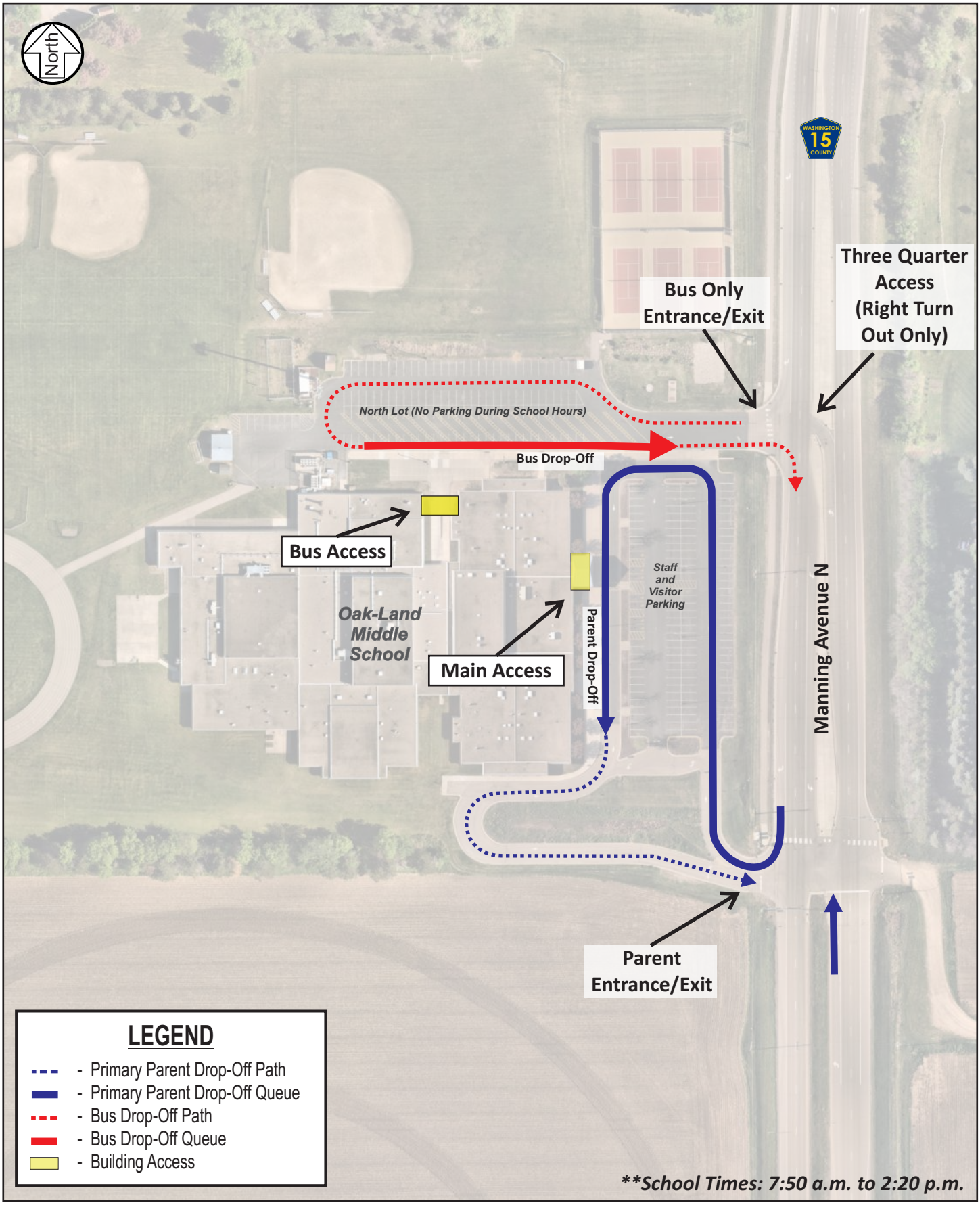
As mentioned previously, the Oak-Land Middle School hours of operations are currently between 7:50 a.m. and 2:20 p.m. The middle school, which serves grades 7-9, currently has an enrollment of approximately 950 students. In order to identify current travel patterns and any access, circulation, pick-up/drop-off, and/or pedestrian crossing issues, field observations were performed at the school. A summary of the middle school operations during the a.m. and school departure peak periods are shown in Figure 5 and 6, respectively. The trip generation for the school during the peak hours is summarized in Table 2.

Table 2. Oak-Land Middle School – Trip Generation (actual counts)

School	Students	School Arrival Peak Hour		School Departure Peak Hour		P.M. Peak Hour		Daily Trips
		In	Out	In	Out	In	Out	
Oak-Land MS	950	337	286	131	174	77	111	2,172

The middle school has two separate parking lot/vehicular access locations, each serving a different purpose for the school.

- The **North Access** is a three-quarter access designated for buses only from 7:00 a.m. to 3:00 p.m. The lot operates as a counterclockwise loop with buses entering from the access along Manning Avenue and looping around the lot to reach the bus pick-up/drop-off area, located on the north side of the school. Given the access restriction, approximately five (5) to 16 buses were observed to make U-turn movements at the Manning Avenue/South Access intersection during school peak hours.
- The **South Access** is the primary access for staff/visitor parking and parent pick-up/drop-off operations. Parents will queue in a counterclockwise one-way loop and pick-up/drop-off students in a designated area, immediately adjacent to the main building access. In addition to staff members, a school resource officer is positioned in the area during school dismissal to help facilitate the process and direct students from the building access.



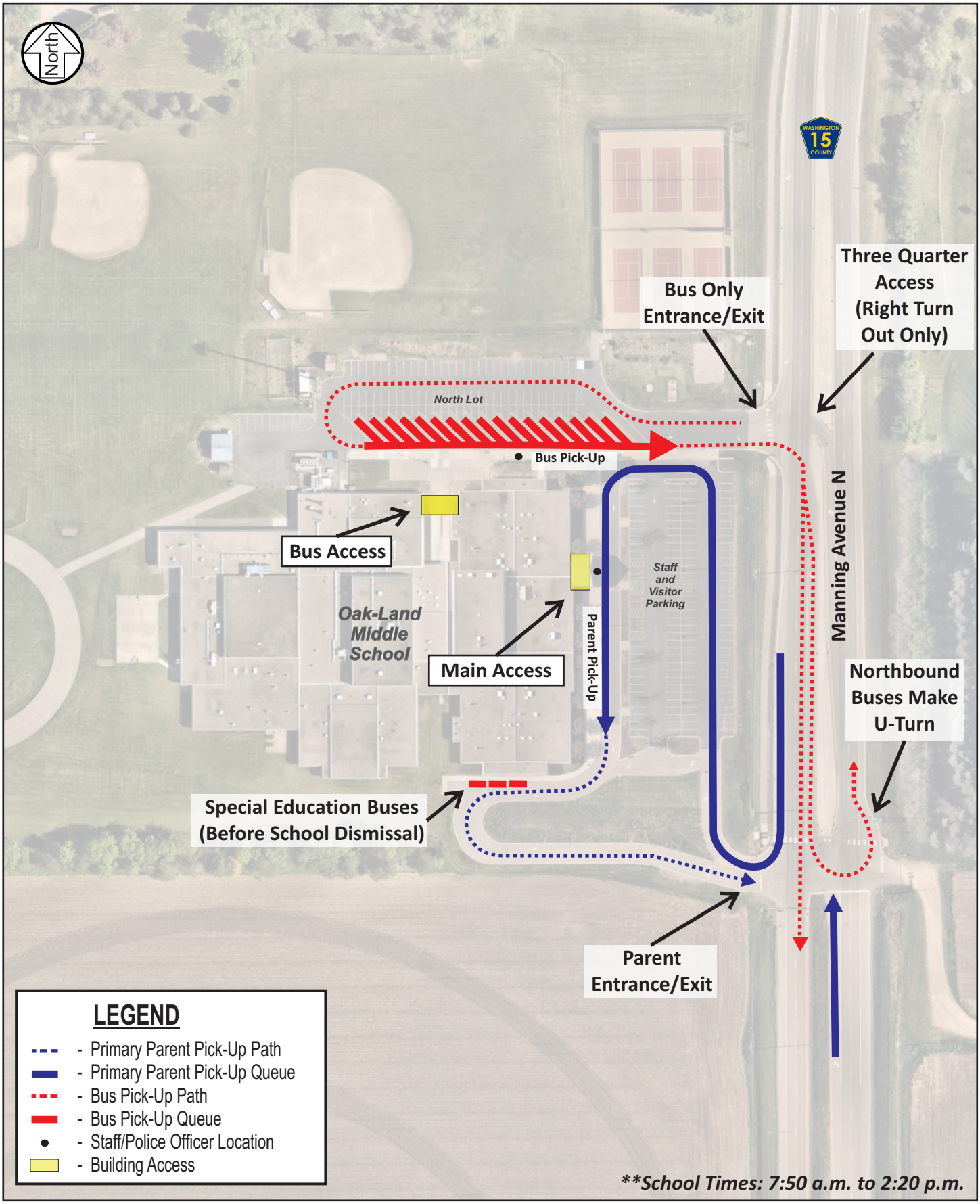
SRF

Oak-Land Middle School - AM Drop-Off Operations

New Lake Elmo Elementary School and Oak-Land Middle School Transportation Study
City of Lake Elmo

Figure 5

02417789
July 2024



SRF

Oak-Land Middle School - PM Pick-Up Operations

New Lake Elmo Elementary School and Oak-Land Middle School Transportation Study
City of Lake Elmo

Figure 6

02417789
July 2024

During school arrivals, parents start arriving at the school around 7:05 a.m. and buses begin to arrive around 7:25 a.m., with the school starting at 7:50 a.m. Internal queueing was observed to extend onto Manning Avenue for approximately ten (10) minutes, however, the queues were maintained with the turn lane storage, and were not observed to affect mainline traffic. The school area was generally clear by 7:50 a.m.

During afternoon pick-ups, travel patterns were generally the same as the morning drop-off. Students were released at 2:20 p.m., and most students were picked up and the school area was cleared within 15 minutes. Parents were observed to arrive at the school early, with some parents arriving as early as 1:45 p.m. Internal queueing was observed to extend onto Manning Avenue starting at 2:10 p.m., and queues nearly maxed out the turn lane storage at the intersection. Despite guidance from staff, some students were observed to cut across the parking lot to get picked up from their parents.

In general, the overall operations during the school arrival and departure periods were observed to be safe and efficient. The only safety issues observed were when students would walk across the pick-up queue and parking lot to get to their parents' vehicle. Despite signage, parents often would not pull up past the main school entrance, leaving potential on-site queueing storage underutilized. While internal queues that extended onto Manning Avenue were observed to be maintained within the turn lane storage, there may be occurrences throughout the year where these queues extend beyond the turn lanes, causing friction and additional conflict points along Manning Avenue.

Intersection Capacity Analysis

An existing intersection capacity analysis was completed using Synchro/SimTraffic software to establish a baseline condition to which future traffic operations can be compared. The capacity analysis was completed for the weekday a.m., school departure, and p.m. peak hour of the adjacent roadway network. Capacity analysis results identify a Level of Service (LOS) which indicates how well an intersection is operating. Intersections are graded from LOS A through LOS F. The LOS results are based on average delay per vehicle results from SimTraffic, which correspond to the delay threshold values shown in Table 3. LOS A indicates the best traffic operation and LOS F indicates an intersection where demand exceeds capacity. Overall intersection LOS A through D is generally considered acceptable by drivers in the Twin Cities Metropolitan Area.

Table 3. Level of Service Criteria for Signalized and Unsignalized Intersections

LOS Designation	Signalized Intersection Average Delay/Vehicle (seconds)	Unsignalized Intersection Average Delay/Vehicle (seconds)
A	≤ 10	≤ 10
B	> 10 - 20	> 10 - 15
C	> 20 - 35	> 15 - 25
D	> 35 - 55	> 25 - 35
E	> 55 - 80	> 35 - 50
F	> 80	> 50

For side-street stop-controlled intersections, special emphasis is given to providing an estimate for the level of service of the side-street approach. Traffic operations at an unsignalized intersection with side-street stop control can be described in two ways. First, consideration is given to the overall intersection level of service. This takes into account the total number of vehicles entering the intersection and the capability of the intersection to support these volumes.

Second, it is important to consider the delay on the minor approach. Since the mainline does not have to stop, the majority of delay is attributed to the side-street approaches. It is typical of intersections with higher mainline traffic volumes to experience high-levels of delay (i.e., poor levels of service) on the side-street approaches, but an acceptable overall intersection level of service during peak hour conditions.

Schools generally have higher peaking characteristics as compared to the typical roadway network during the a.m. and p.m. peak hours (i.e., traffic on/near school grounds tend to be busy for a short period of time close to school start and end times). The study focused on analyzing and publishing findings for the 60-minute interval, which is the traffic industry standard. Additionally, peak 15-minute intervals were reviewed to provide context on any operational issues occurring immediately before or after school start and end times.

Results of the existing intersection capacity analysis, shown in Table 4, indicate that all study intersections, other than the 10th Street/Keats Avenue intersection, currently operate at an acceptable overall LOS D or better during the a.m., school departure, and p.m. peak hours.

Table 4. Existing Intersection Capacity Analysis

Intersection	A.M. Peak Hour (3)		School Departure Peak Hour (3)		P.M. Peak Hour	
	LOS	Delay	LOS	Delay	LOS	Delay
10th Street/Keats Avenue (1)	B	14 sec.	C	17 sec.	F	63 sec.
10th Street/Lake Elmo Avenue (1)	B	14 sec.	C	16 sec.	D	27 sec.
Lake Elmo Avenue/Hudson Boulevard (2)	A/A	7 sec.	A/A	7 sec.	A/A	10 sec.
10th Street/Manning Avenue	C	26 sec.	C	23 sec.	D	38 sec
Manning Avenue/Oak-Land MS North Access (2)	A/A	6 sec.	A/A	5 sec.	A/A	6 sec.
Manning Avenue/Oak-Land MS South Access	B	11 sec.	A	6 sec.	A	7 sec.

(1) Indicates an all-way stop control, where the overall LOS and delay are shown.

(2) Indicates an unsignalized intersection with side-street stop control, where the overall LOS is shown followed by the worst side-street approach LOS. The delay shown represents the worst side-street approach delay.

(3) The school a.m. and p.m. peak hours are defined as 7:00 – 8:00 a.m. and 2:00 – 3:00 p.m. respectively. The school a.m. peak hour generally coincides with the a.m. peak hour of the adjacent roadway network.

The following information summarizes the operational and/or queuing issues identified as part of the existing conditions analysis:

10th Street/Keats Avenue:

- The overall intersection operates at a LOS F (63 seconds) during the p.m. peak hour, and the eastbound and westbound approaches (i.e., 10th Street) both have delays of 70 seconds or greater and 95th percentile queues of 600 feet or greater.
- The intersection is atypical for an all-way stop control, with multiple turn lanes and a wide center median along Keats Avenue. Drivers were observed to be confused on who had the right-of-way, and several turning movements occurred simultaneously mid-intersection.
- Note the intersection is ranked as the number 3 priority intersection within the *Washington County 2023 Intersection Control Ranking System (ICRS) Report* and is programmed within the *Washington County 2024-2028 Capital Improvement Plan* for roundabout evaluation/preliminary design in 2027.

10th Street/Lake Elmo Avenue:

- While the overall intersection operates at an acceptable LOS D (27 seconds), the eastbound approach operates at a LOS E (43 seconds) with 95th percentile queues of approximately 375 feet during the p.m. peak hour.
- While the intersection is below the average crash rate, there have been eight (8) crashes in the last five (5) years that involved vehicles running the stop sign or failing to yield right-of-way.

Manning Avenue/Oak-Land Middle School South Access:

- As mentioned previously, parent pick-up/drop-off queues were observed to extend onto Manning Avenue for short durations (i.e., 10-minutes) during both the school arrival and departure peak hours. During site observations these queues were observed to be maintained within turn lane storage, however, there may be occurrences throughout the year where these queues extend beyond the turn lanes, which may cause friction and additional conflict points along Manning Avenue.

Proposed School Projects

As mentioned previously, both the new Lake Elmo Elementary School and Oak-Land Middle School additions are expected to be completed and open in Fall of 2026.

Oak-Land Middle School

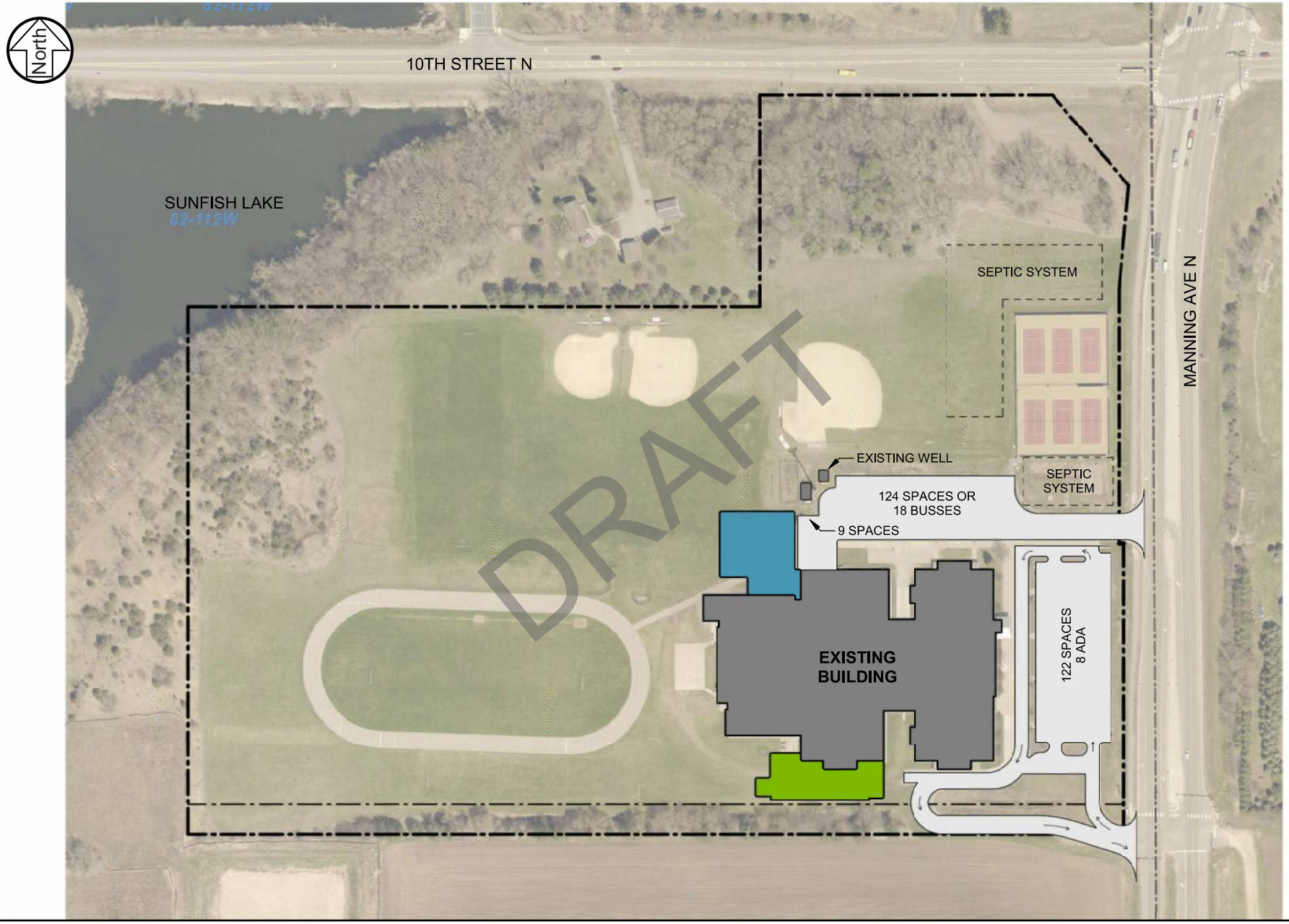
The existing Oak-Land Middle School is located in the southwest quadrant of the Manning Avenue (CSAH 15) and 10th Street (CSAH 10) intersection. Planned renovations, which are illustrated in Figure 7, include a proposed 16,000 square foot gymnasium and a 29,500 square foot classroom addition. The capacity of the school is expected to increase from 950 to 1,250 students with 125 total staff. No parking lot or vehicular access changes are planned as part of the renovation project. Note classes are scheduled to take place for approximately 172 days of the year.

Lake Elmo Elementary School

The new proposed Lake Elmo Elementary School, shown in Figure 8, is located in the northwest quadrant of the Lake Elmo Avenue (CSAH 17) and 10th Street (CSAH 10) intersection in the City of Lake Elmo. The new elementary school is expected to replace the existing Lake Elmo Elementary School, which is located in the northeast quadrant of the Lake Elmo Avenue/Stillwater Boulevard intersection. The new elementary school is anticipated to have a maximum enrollment of 1,100 students and 130 staff members. Note the current enrollment of Lake Elmo Elementary is approximately 650 students, however, for the purpose of this study the year of opening (2026) with the maximum enrollment was analyzed to provide a conservative estimate. Classes are scheduled to take place approximately 168 days of the year. Access to the elementary school is proposed at the following two (2) locations:

- **Main School Access:** Located along 10th Street, approximately 1,225 feet west of 10th Street/Lake Elmo Avenue intersection; this access would be the primary access for staff/visitor parking and will also serve parent pick-up/drop-off operations.
- **Bus Access:** Located along Lake Elmo Avenue, approximately 1,250 feet north of the 10th Street/Lake Elmo Avenue intersection; this access is intended for buses/utility vehicles only for the school.

Further discussion regarding the site plan is documented later in this study.



SRF

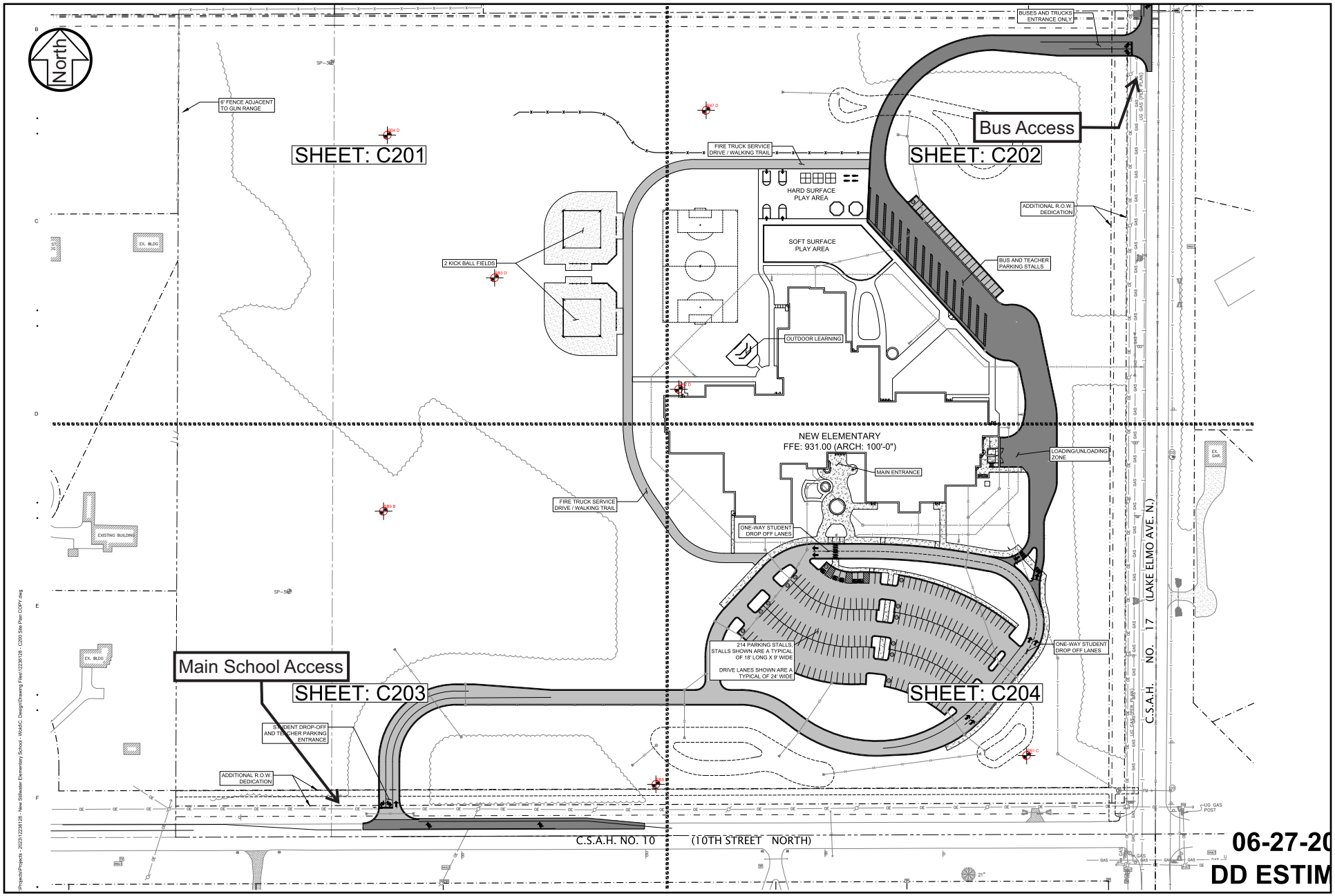
Preliminary Site Plan - Oak-Land Middle School

New Lake Elmo Elementary & Oak-Land Middle School Transportation Study

City of Lake Elmo

Figure 7

02417789
July 2024



Preliminary Site Plan - Lake Elmo Elementary School

New Lake Elmo Elementary & Oak-Land Middle School Transportation Study

City of Lake Elmo

Figure 8

02417789
July 2024

Traffic Forecasts

To evaluate traffic impacts associated with the two school projects, traffic forecasts were developed for the year 2026 build conditions. The following information summarizes the year 2026 traffic forecast development process.

School Time Changes

Based on discussions with the school district, school times are expected to change prior to Year 2026 conditions and are summarized in Table 5. To account for the shift in travel patterns to/from Oak-Land Middle School, site trips were estimated throughout the network and modified to align with the new hours of operations. Given the staggered start/end times, four (4) separate peak hours were analyzed as part of this study to align with the new school times. It should be noted that these peak hours, which are also summarized in Table 5, slightly overlap with each other, however, in general the two (2) schools are staggered enough to minimize compounding impacts. Note the p.m. peak hour is based on the adjacent roadway network and is expected to remain from 4:00 to 5:00 p.m.

Table 5. School Time Changes

School	School Times		School Peak Hours Analyzed
	Current	Future (2026)	
Oak-Land Middle School	7:50 – 2:20 pm	8:35 – 3:05 pm	7:45 -8:45 am 2:30-3:30 pm
Lake Elmo Elementary	8:45 – 3:15 pm	7:45 – 2:15 pm	7:00 -8:00 am 1:45-2:45 pm

Background Traffic Growth

To account for general background growth in the area, a growth rate of one and three quarters (1.75) percent was applied to the existing peak hour traffic volumes to develop year 2026 background traffic forecasts. This growth rate was developed using a combination of historical average daily traffic (ADT) volumes from surrounding roadways publish by MnDOT, traffic forecasts from both the *City of Lake Elmo* and *Washington County Comprehensive Plans,* and engineering judgment. It should be noted that there are several development opportunities and potential roadway connections south of the school sites, however, based on discussions with the project team the general background growth rate is expected to account for this development potential from a traffic perspective.

Trip Generation – Oak-Land Middle School

To account for the traffic operations associated with the enrollment changes expected at Oak-Land Middle School, trip generation estimates were developed. The trip generation estimates, shown in Table 6, were developed using the existing trip rates based on the data collected at the site access locations (highlighted in gray).

Table 6. Oak-Land Middle School – Trip Generation

School	Students	School Arrival Peak Hour		School Departure Peak Hour		P.M. Peak Hour		Daily Trips
		In	Out	In	Out	In	Out	
Current Site Trips	950	337	286	131	174	77	111	2,172
Enrollment Increase	300	+106	+90	+41	+54	+24	+35	+685
Total Site Trips	**1,250**	**443**	**376**	**172**	**228**	**101**	**146**	**2,857**

Results of the trip generation estimate indicate that Oak-Land Middle School is expected to generate an additional 196 school arrival peak hour, 95 school departure peak hour, 59 p.m. peak hour, and 685 daily trips with the new enrollment. Therefore, the school site trips were proportionally increased to account for the change in trips associated with the proposed enrollment increases.

Trip Generation – Lake Elmo Elementary School

To identify the traffic operations with the proposed elementary school, trip generation estimates for the school arrival (7:00 to 8:00 a.m.), school departure (1:45 to 2:45 p.m.), and p.m. peak hours (4:00 to 5:00 p.m.), as well as a daily basis were developed. The trip generation estimates, shown in Table 7, were developed using the *ITE Trip Generation Manual, 11th Edition*. Note that the trip generation was developed for the maximum enrollment of the school to provide a conservative estimate.

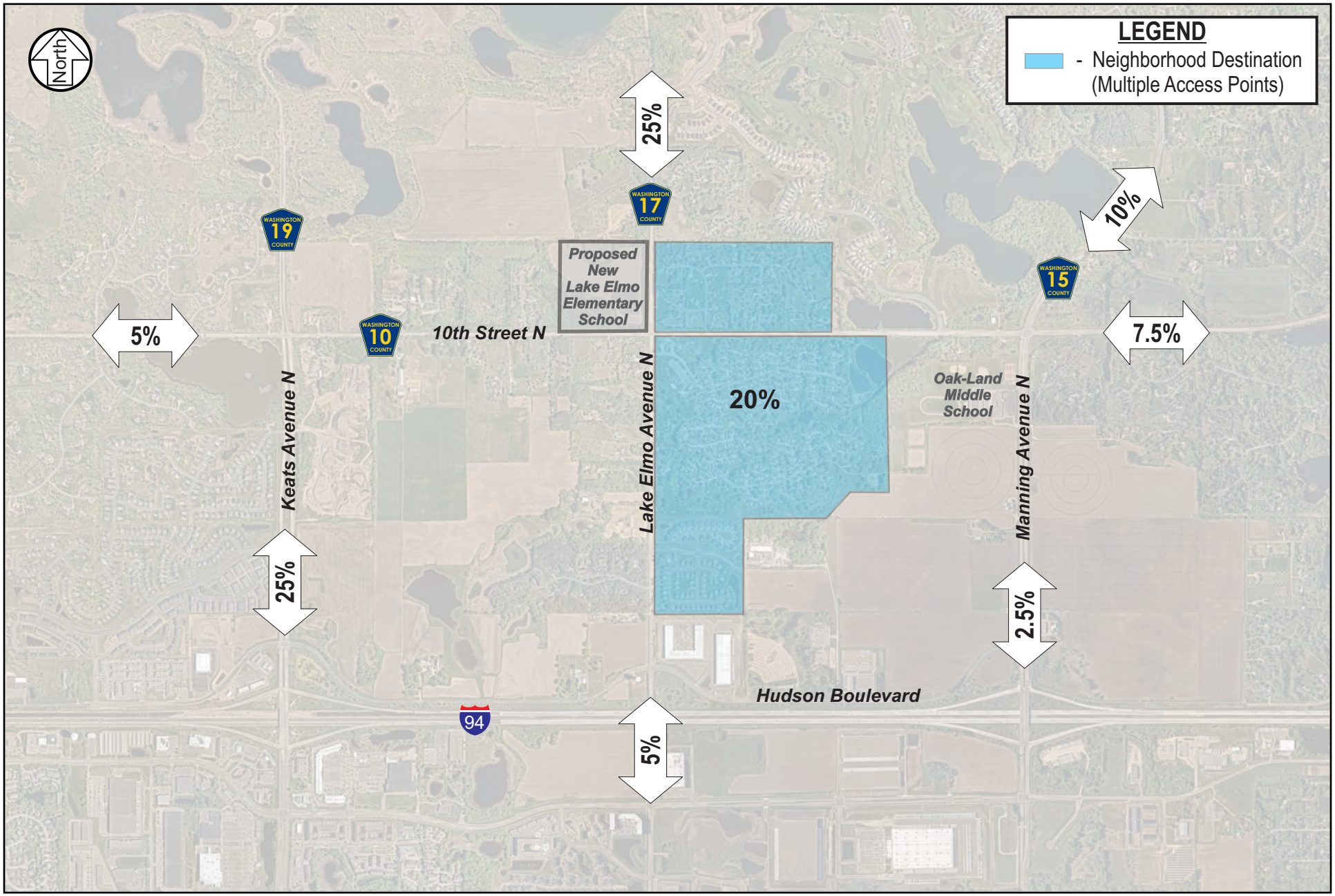
Table 7. Trip Generation Estimate

Land Use Type *(ITE Code)*	Students	School Arrival Peak Hour		School Departure Peak Hour		P.M. Peak Hour		Daily Trips
		In	Out	In	Out	In	Out	
Elementary School (520)	1,100	446	379	228	267	81	95	2,497

Results of the trip generation estimate indicate that the proposed new Lake Elmo Elementary School is expected to generate approximately 825 school arrival peak hour, 495 school departure peak hour, 176 p.m. peak hour, and 2,497 daily trips. Trips were distributed throughout the study area based on the directional distribution shown in Figure 9, which was developed based on enrollment information provided by the school district, existing travel patterns, and engineering judgement.

Traffic Forecast Summary

Based on the traffic forecast approach described within this study, peak hour traffic forecasts were developed for year 2026 build conditions, which is illustrated in Figures 10. The year 2026 build conditions incorporate adjustments for school hours at Oak-Land Middle School, general background growth, and additional trips generated by the new elementary school and middle school expansion. Figure 10 illustrates the peak volumes during the busiest periods, showing the peak hour volumes for each respective school at their primary study intersections. The year 2026 build traffic forecasts for all four (4) school peak periods are shown in the Appendix.



SRF

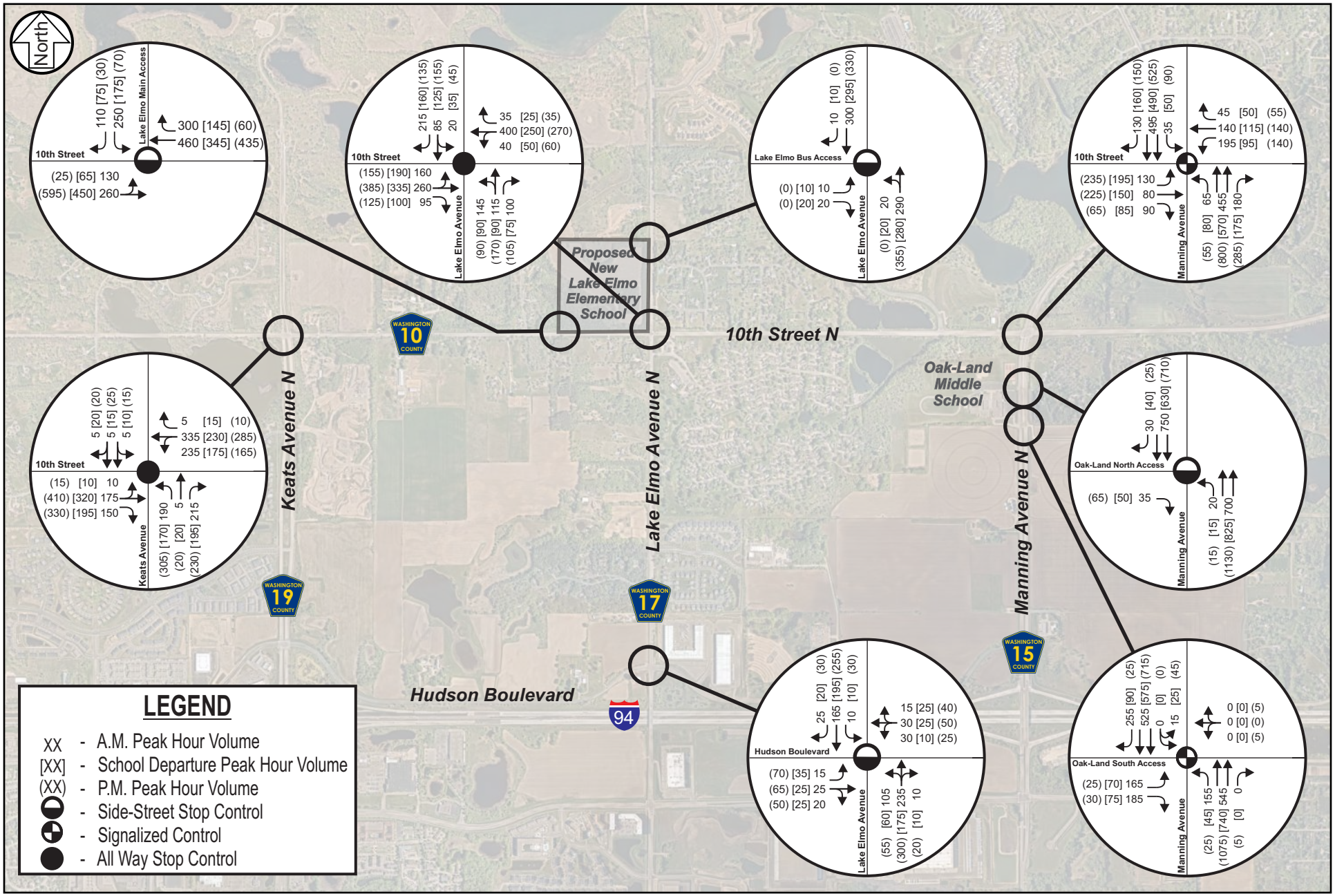
Directional Distribution - Lake Elmo Elementary School

New Lake Elmo Elementary & Oak-Land Middle School Transportation Study

City of Lake Elmo

Figure 9

02417789
July 2024



SRF

Year 2026 Build Conditions

New Lake Elmo Elementary & Oak-Land Middle School Transportation Study

City of Lake Elmo

Figure 10

02417789
July 2024

Year 2026 Build Conditions

To understand how the study intersections will accommodate the year 2026 build traffic forecasts, an intersection capacity analysis was completed using Synchro/SimTraffic software. The following information summarizes the year 2026 build conditions.

Assumptions

The following assumptions were included as part of the intersection capacity analysis:

- While operational issues were identified at the 10th Street/Keats Avenue intersection under existing conditions, the intersection was assumed to remain all-way stop control under the build conditions analysis. It should be noted that roundabout evaluation and preliminary design is programmed for 2027 based on the *Washington County 2024-2028 Capital Improvement Plan.*
- It should be noted that the analysis assumes there is adequate parent pick-up/drop-off storage provided on-site. The required storage for parent pick-up/drop-offs and potential impacts of inadequate storage are discussed within the site plan review section.
- While not shown in the preliminary site plan, an eastbound left-turn lane was assumed at the 10th Street/Main School Access for the new Lake Elmo Elementary School.
- The operations analysis represents the busiest hour for each respective school at their primary study intersections. Operations for all four (4) school peak periods are shown in the Appendix.

Year 2026 Build Conditions

Results of the year 2026 build conditions intersection capacity analysis are shown in Table 8.

Table 8. Year 2026 Build Intersection Capacity Analysis

Intersection	A.M. Peak Hour (3)		School Departure Peak Hour (3)		P.M. Peak Hour	
	LOS	Delay	LOS	Delay	LOS	Delay
Lake Elmo Elementary School						
10th Street/Keats Avenue (1)	C	19 sec.	D	26 sec.	F	> 3 min.
10th Street/Lake Elmo Avenue (1)	F	98 sec.	E	37 sec.	F	54 sec.
Lake Elmo Avenue/Hudson Boulevard (2)	A/A	8 sec.	A/A	6 sec.	A/B	11 sec.
Lake Elmo Avenue/Bus Access (2)	A/A	5 sec.	A/A	5 sec.	A/A	4 sec.
10th Street/Main School Access (2)	F/F	> 2 min.	C/F	58 sec.	A/B	14 sec.
Oak-Land Middle School						
10th Street/Manning Avenue	C	26 sec.	C	26 sec.	D	38 sec.
Manning Avenue/Oak-Land MS North Access (2)	A/A	10 sec.	A/A	5 sec.	A/A	6 sec.
Manning Avenue/Oak-Land MS South Access	B	14 sec.	A	7 sec.	A	6 sec.

(1) Indicates an all-way stop control, where the overall LOS and delay are shown.

(2) Indicates an unsignalized intersection with side-street stop control, where the overall LOS is shown followed by the worst side-street approach LOS. The delay shown represents the worst side-street approach delay.

(3) The a.m. and school departure peak hour operations are summarized under each respective school peak period. Note the p.m. peak hour is based on the adjacent roadway network.

The following information summarizes the operational and/or queuing issues identified as part of the year of opening (i.e. 2026 build) intersection capacity analysis. Note the following section summarizes the percentage of trips contributed to the roadway network by the school developments.

10th Street/Keats Avenue:

- The intersection is expected to be overcapacity during the p.m. peak hour, with overall average delays of over three (3) minutes and maximum eastbound queues of 1/2-mile.
- As mentioned previously, this intersection is programmed within the *Washington County 2024-2028 Capital Improvement Plan* for roundabout evaluation/preliminary design in 2027.
- **Recommendation:** The County should execute their CIP and construct a roundabout at the intersection to improve operations and safety.

10th Street/Lake Elmo Avenue:

- The intersection is expected to operate at an unacceptable LOS E/F during the a.m., school departure, and p.m. peak hours. Eastbound queues are expected to be over 600 feet during all three peak hours, and westbound queues are expected to be over 1,500 feet during the a.m. peak hour.
- As mentioned previously, while the intersection is below the average crash rate, there have been eight (8) crashes in the last five (5) years that involved vehicles running the stop sign or failing to yield right-of-way.
- **Recommendation:** The County should consider constructing a traffic signal or roundabout at the intersection to improve operations and better delineate right-of-way.

10th Street/Lake Elmo Elementary Main School Access:

- The southbound approach (i.e. elementary school exit) operates at LOS F and is expected to have queues of 500 to 1,200 feet (25 to 60 vehicles) during the peak 30-minute windows before and after school start and end times.
- Approximately 250 vehicles are expected to make a southbound left-turn movement during the a.m. peak hour, which presents a safety concern given the peak characteristics associated with the school, and the high-speeds (i.e. 55-mph) of the adjacent roadway network. In addition, gaps along 10th Street are expected to be limited, and drivers may accept smaller gaps and make more aggressive movements, which could increase the risk of a potential crash.
- **Recommendation:** Construct a traffic signal or roundabout at the intersection to improve operations and safety.
    - Other options were considered, such as employing traffic control officers, restricting left-turns, or implementing staggered pick-up/drop-off schedules. However, high speeds on the roadway pose a safety concern for traffic control officers. Implementing access restrictions would force vehicles to travel three quarters of a mile to the 10th

Street/Keats Avenue intersection to reroute their travel patterns. Additionally, while staggered pick-up/drop-off schedules could help alleviate some operational challenges, they may inconvenience parents with multiple students and are unlikely to fully resolve the safety and operational concerns.

10th Street/Lake Elmo Elementary Bus Access:

- During school arrival and departure peak hours, an estimated 16 to 18 buses are anticipated to access the site from the south, likely within a similar time window.
- **Recommendation:** While not needed from an operations perspective, given the high speeds (i.e. 55-mph) of the roadway, a northbound left-turn lane is recommended at the school's bus access from a safety perspective.

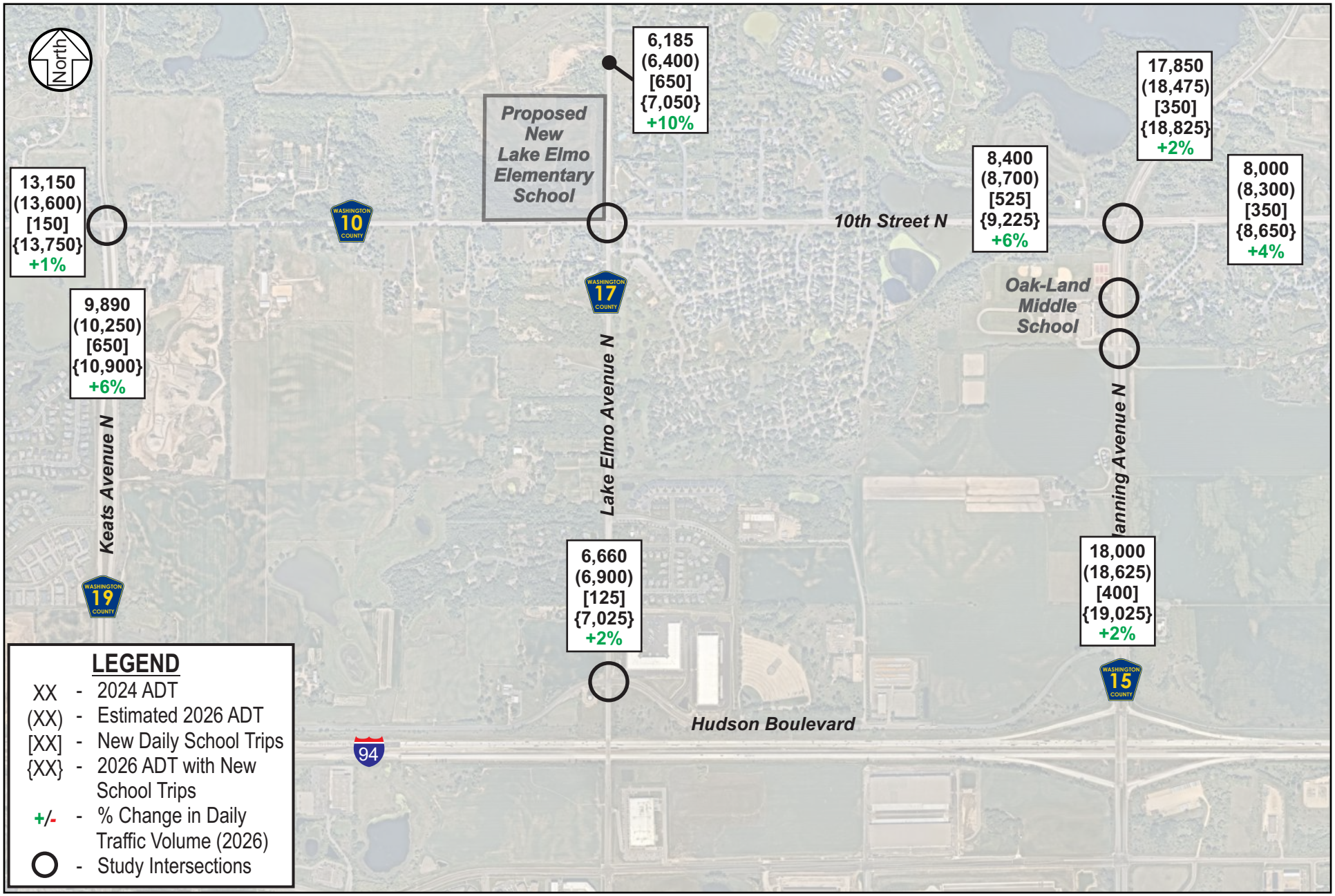
Trip Proportional Share

Based on the year 2026 build conditions analysis, intersection improvements were identified at the 10th Street/Lake Elmo Avenue intersection. The improvements are triggered based on a combination of background traffic and the maximum enrollment of the elementary school. It should be noted that operational issues were identified at the intersection during the p.m. peak hour under existing conditions. Therefore, to identify the number of trips the proposed elementary school contributes to the intersection, a trip proportional share analysis was conducted. The intersection is currently an all-way stop control, therefore, all movements conflict with each other and contribute to the overall operations of the intersection. The trip proportional share, which is shown in Table 9, was developed by taking the expected elementary site trips entering the intersection and dividing them by the total number of entering vehicles under the year 2026 build conditions. The review included daily trips as well as each of the three peak hours analyzed (i.e. a.m., school departure, and p.m. peak hour) given issues were identified under all peak hour scenarios. Note that the proportional share was primarily focused on the Lake Elmo Elementary School trips, as the school times are largely staggered from each other and the increase in trips from Oak-Land Middle School during the p.m. peak hour is expected to be minimal. The resultant proportional share of trips that the proposed elementary school contributes to the intersection ranges from seven (7) to 35 percent.

Table 9. 10th Street/Lake Elmo Avenue - Trip Proportional Share (2026 Build)

Entering Volumes	A.M. Peak Hour	School Departure Peak Hour	P.M. Peak Hour	Daily
Lake Elmo Elementary Site Trips	580	350	125	1,750
Year 2026 Build Total Volumes	1,645	1,490	1,710	18,120
Proportional Share	**35%**	**23%**	**7%**	**10%**

In addition to assessing the 10th Street/Lake Elmo Avenue intersection, daily volumes were also reviewed along the study roadways. A summary of the current background traffic and the traffic volume changes associated with the school developments is shown in Figure 11. Note the background traffic volumes are based on the 24-hour volumes collected as part of the study and adjusted using the general background growth rate. The ADT comparison indicates that most study roadways are only anticipated to increase by approximately one (1) to 10 percent as a result of the school developments.



SRF

Daily Volume Comparison

New Lake Elmo Elementary & Oak-Land Middle School Transportation Study

City of Lake Elmo

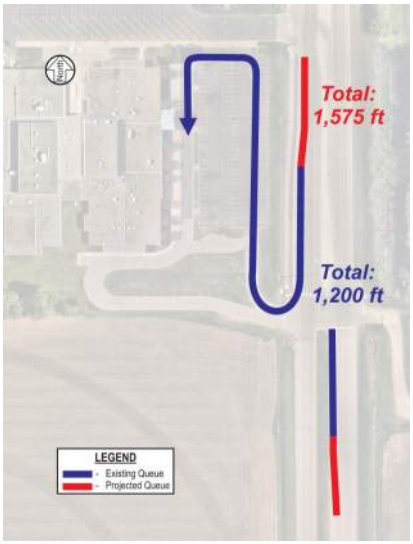
Figure 11

02417789
June 2024

Parent Pick-up/Drop-off Storage

A review of the existing and proposed parent pick-up/drop-off storage was completed to identify any issues and recommend potential improvements to limit any impacts to the adjacent roadway network.

Oak-Land Middle School

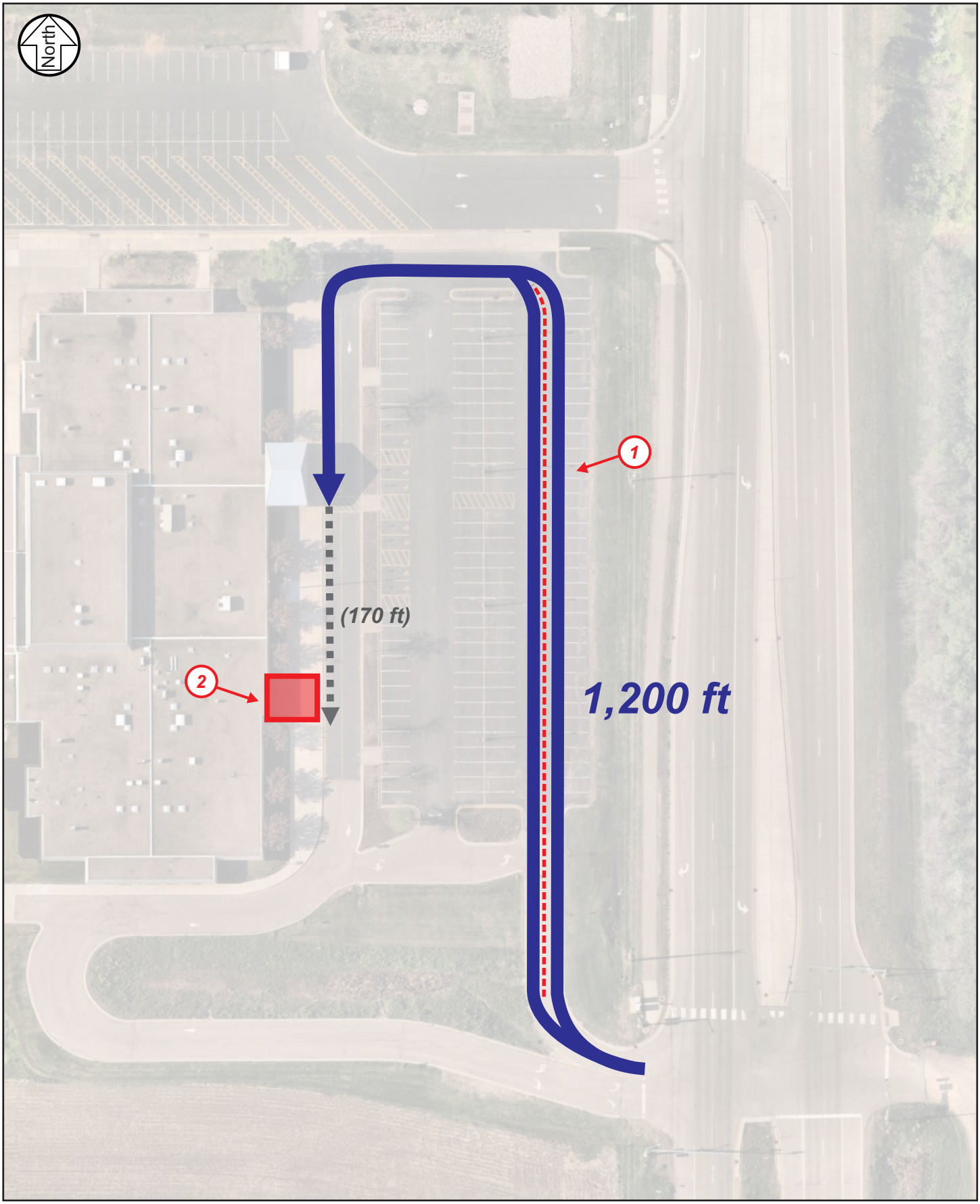


As mentioned previously, field observations were performed at the Oak-Land Middle School to identify any access, circulation, and/or parent pick-up/drop-off issues. Observations indicated that internal queueing extended onto Manning Avenue but generally remained within the turn lane storage at the Manning Avenue/Oak-Land Middle School south access intersection. From the main building access, there is approximately 750 feet of single-lane internal queueing storage provided on-site, and approximately 1,200 feet of queues were observed. Projecting forward with the anticipated enrollment increases, approximately 375 feet of additional storage may be required in the future to accommodate increased demand. With the future enrollment, parent pick-up/drop-off queues are expected to extend beyond turn lanes, which may cause friction and additional conflict points along Manning Avenue. Therefore, the following considerations are provided to help increase vehicular storage on-site, which are summarized below and illustrated in Figure 12. It should be noted that there is limited flexibility to improve on-site storage for the site given the existing building footprint/access and the Manning Avenue intersection location.

1. Consider implementing a dual-lane entry within the parking lot to provide an additional 500 feet of on-site storage. This configuration allows vehicles to queue in two lanes before merging into a single lane prior to the parent pick-up/drop-off area. The strategy could be accomplished through the use of daily cones, signage, pavement markings, and/or direct communication with parents. It is important to note that this strategy will utilize the full width of the drive isle, which may limit parking and/or maneuvering the parking lot for staff and other users. Additionally, the merge point may present a learning curve for some parents, and initial implementation may require support from the school resource officer. Note this strategy will not alleviate queueing onto Manning Avenue but is expected to maintain queueing within the turn lane storage, similar to what was observed under existing conditions.

2. If feasible, consider providing an additional building access for students on the south side of the building. During observations, it was noted that despite signage, parents did not pull up past the main school entrance, resulting in 170 feet of on-site queuing storage being underutilized. Introducing a south-side access point would encourage parents to utilize this additional storage effectively.

3. Other strategies, such as implementing staggered pick-up/drop-off times for different grades or classes could be considered if issues arise.



SRF

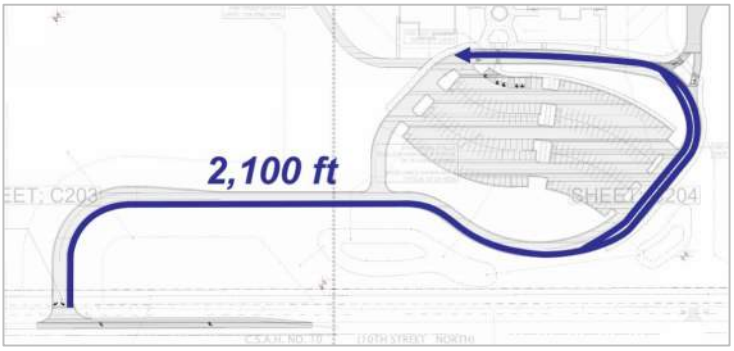
Site Plan Considerations - Oak-Land Middle School

New Lake Elmo Elementary & Oak-Land Middle School Transportation Study
City of Lake Elmo

Figure 12

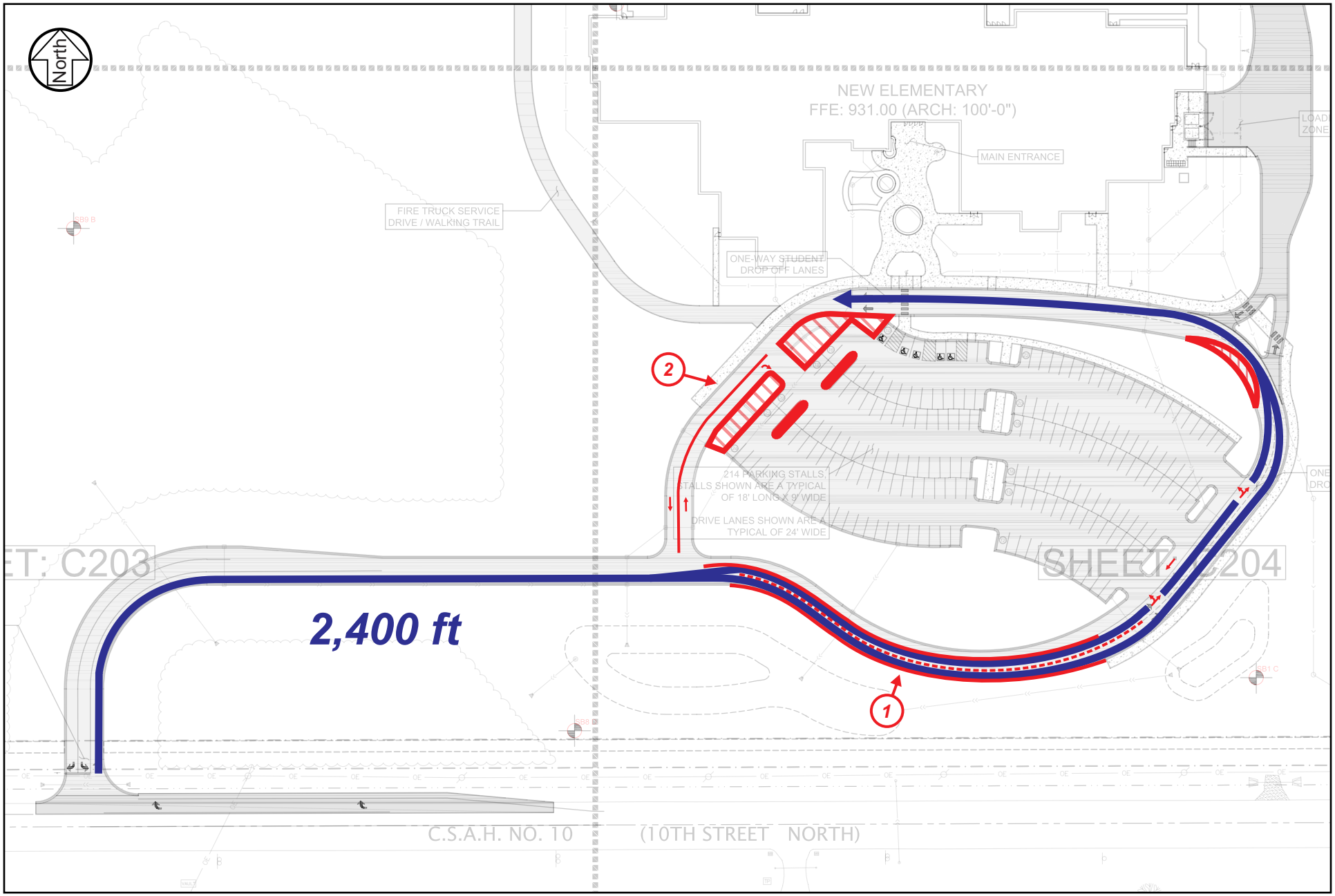
02417789
July 2024

Lake Elmo Elementary School



The proposed elementary school layout includes a one-way parent pick-up/drop-off, with two lanes of queueing storage provided near the school's main entrance. Based on the preliminary site plan, there is expected to be approximately 2,100 feet of internal queueing storage provided within the parent pick-up/drop-off lane. Based on recent (i.e. 2022 to 2024) queueing studies completed by SRF at multiple elementary schools in/around the metro (including the existing Lake Elmo Elementary School), the expected storage needed for an enrollment of 1,100 students is approximately 2,400 feet. Note this storage represents the school pick-up timeframe, which is often longer than the morning drop-off, as several parents often arrive early and wait for the school release. Comparing the expected storage needed at the proposed elementary school under the max enrollment with the preliminary site plan indicates that there is a potential deficit of approximately 300 feet of storage. This deficit may result in queues along 10th Street to block through traffic, which could cause safety and operational issues. Therefore, the following site plan considerations are provided to help increase vehicular storage on-site and improve internal operations/site circulation, which are summarized below and illustrated in Figure 13.

1. Consider extending the dual-lane storage to just east of the internal intersection to provide an additional 300 feet of on-site vehicular storage. While a dual-lane pick-up/drop-off operation could be considered, it requires significant staffing for successful implementation. The purpose of the dual-lanes in this configuration is to increase the capacity for stacking vehicles on-site before merging them into a standard single-lane pick-up/drop-off area.
    a. Provide adequate signage and striping to inform parents to form two lanes during school pick-up/drop-offs and merge to one lane near the designated parent pick-up/drop-off area. Note that based on other school observations, this may only be needed during school pick-ups when parents arrive early and wait for the school release. As mentioned previously, the merge point may present a learning curve for some parents, and initial implementation may require support from school staff.
2. Consider reconfiguring or redesigning the parking lot to minimize access points near the parent pick-up/drop-off outlet. This adjustment aims to decrease conflict points, designate right-of-way to reduce driver confusion, and improve circulation.



Site Plan Considerations - Lake Elmo Elementary School

New Lake Elmo Elementary & Oak-Land Middle School Transportation Study

City of Lake Elmo

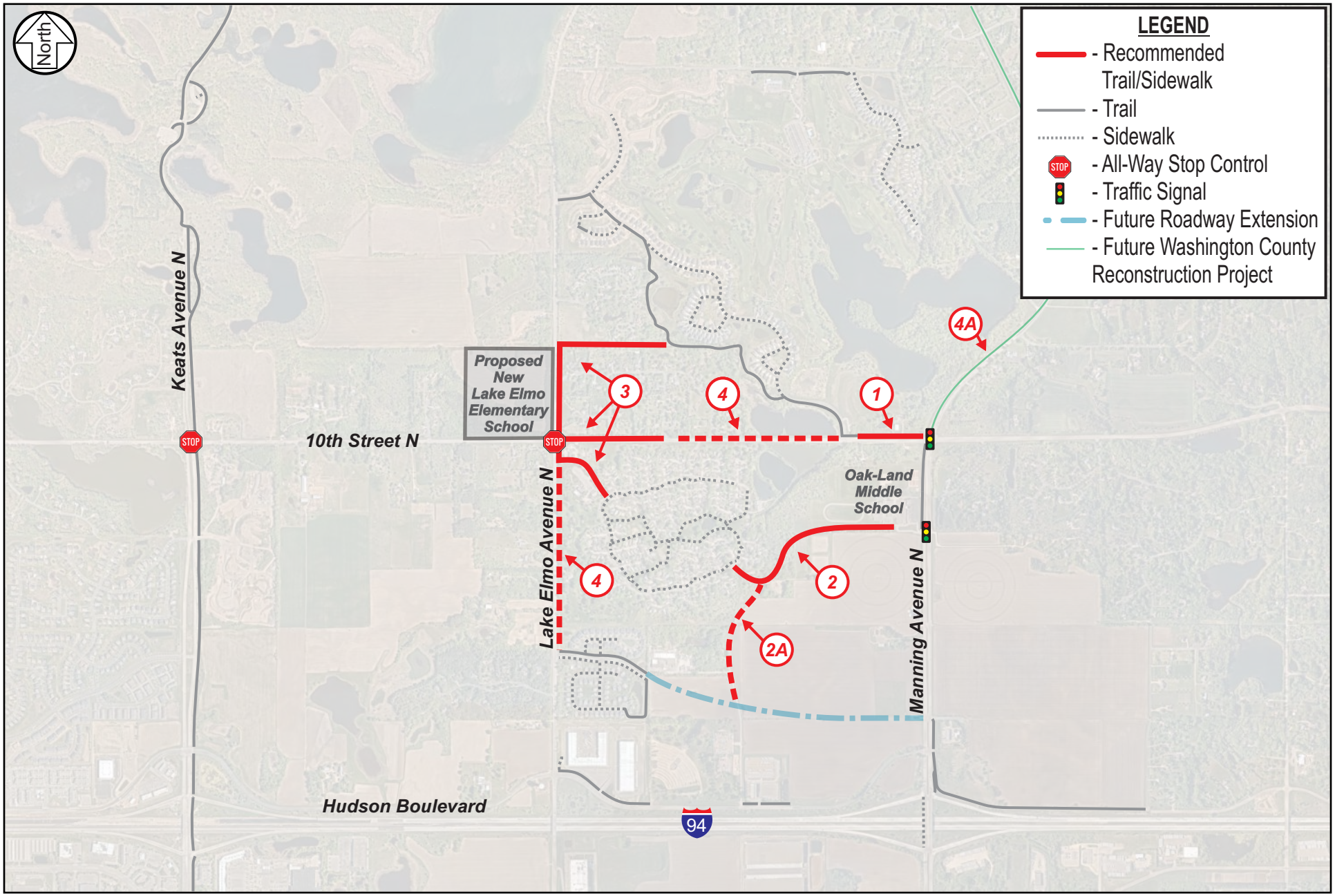
Figure 13

02417789
July 2024

Pedestrian/Bicycle Considerations

Note the existing pedestrian/bicycle facility network is discussed in the existing conditions section and previously shown in Figure 3. While nearby local neighborhood developments incorporate internal pedestrian/bicycle facilities, the adjacent highways generally lack off-street facilities and pedestrian crossings. The proximity of the two (2) schools to these high-speed county highways presents a challenge in balancing pedestrian connectivity with safety concerns. Enhancing pedestrian access is important for ensuring school accessibility, yet the high-speed nature of the adjacent roadways raises safety considerations. Therefore, the following pedestrian/bicycle considerations are offered, which are also illustrated in Figure 14. It should be noted that there may be several feasibility challenges with the provided considerations, therefore, further discussion should occur with area stakeholders to determine what pedestrian/bicycle facilities options could/should be implemented.

1. Extend the existing trail along 10th Street (trail starts at Palmer Drive but terminates approximately 150 feet to the east) to connect to the Manning Avenue/10th Street intersection. This connection provides Oak-Land Middle School users the ability to walk to/from the neighborhood development along Palmer Drive.
2. Guide future development to include a trail connection from Oak-Land Middle School to the neighborhood to the west. The neighborhood comprises of approximately five (5) percent of the middle school's current enrollment and is within a short walking distance, averaging less than 3/4 mile.
    a. As mentioned previously, there are upcoming plans to extend 5th Street to Manning Avenue, with off-street trails along the roadway and anticipated residential developments nearby. Therefore, this trail connection could potentially facilitate a future trail connection to the extended 5th Street if/when it gets extended.
3. Similar to consideration #2, there are residential neighborhoods nearby where students could potentially walk or bike if safe facilities were provided. This consideration involves establishing a pedestrian/bicycle connection to/from the neighborhoods to the southeast, east, and northeast of the proposed elementary school. The proposed facilities would cross the adjacent highways at the current all-way stop controlled intersection of Lake Elmo Avenue/10th Street, with potential improvements to a traffic signal or roundabout. Given the roadway speeds, additional support from parents or staff may be desired at the crossing. Nevertheless, this offers another accessibility option that could help alleviate vehicular traffic.
4. The *Washington County Bicycle and Pedestrian Plan (2021)* identifies future off-road pedestrian/bicycle facilities along 10th Street (CSAH 10) and Manning Avenue (CSAH 15). Note both corridors are designated as "high priority" within the plan and would connect the proposed facilities outlined above. While not identified in the plan, an off-street facility could be considered along Lake Elmo Avenue could provide access to the residential development along 5th Street.
    a. Note Washington County is planning to reconstruct Manning Avenue from 10th Street to 30th Street to provide center left-turn lanes at key locations. As part of the project, off-street pedestrian/bicycle facilities could be considered.



SRF

Pedestrian and Bicycle Considerations

New Lake Elmo Elementary & Oak-Land Middle School Transportation Study

City of Lake Elmo

Figure 14

02417789
July 2024

Summary and Conclusions

SRF has completed a transportation study for the new Lake Elmo Elementary School and the additions to Oak-Land Middle School in the City of Lake Elmo, MN. The main objectives of the transportation study were to review existing operations within the study area, evaluate transportation impacts to the adjacent roadway network based on the new elementary school and additions to the middle school, and recommend any necessary improvements to provide safe and efficient operations for all modes of transportation. Key findings of the transportation study are summarized below:

1) **Existing Conditions:**

    a. **Pedestrian/Bicycle Facilities:** Existing pedestrian/bicycle facilities were assessed, revealing gaps and safety challenges, particularly due to the high-speed roadways surrounding the schools.

    b. Safety Analysis: A review of crash data identified patterns and highlighted intersections with higher crash rates, however, none of the study intersections have a crash rate over the critical rate, indicating that no study intersections have a statistically significant crash problem.

    c. School Observations: Field observations were conducted at both the Oak-Land Middle School and former Lake Elmo Elementary School to identify travel patterns, pick-up/drop-off queues, and other site-specific issues.

        i. Parent pick-up/drop-off queues were observed at Oak-Land Middle School to extend onto Manning Avenue for short durations (i.e. 10-minutes) during the school arrival and departure peak hours.

    d. Traffic Operations: Existing operational issues were identified at the following study intersections. All other study intersections are expected to operate at an acceptable LOS D or better during peak periods.

        i. **10th Street/Keats Avenue:** Overall intersection operates at LOS F during the p.m. peak hour.

        ii. **10th Street/Lake Elmo Avenue:** Eastbound approach operates at LOS E during p.m. peak hour.

2) **Traffic Forecasts:**

    a. Background Growth: A 1.75 percent annual growth rate was applied to existing peak hour traffic volumes to forecast 2026 background traffic.

    b. **Lake Elmo Elementary Trip Generation:** The new Lake Elmo Elementary School is expected to generate approximately 825 a.m. peak hour, 495 school departure peak hour, 176 p.m. peak hour, and 2,497 daily trips.

c. **Oak-Land Middle School Trip Generation:** The expected enrollment changes at the Oak-Land Middle School are expected to generate an additional 196 a.m. peak hour, 95 school departure peak hour, 59 p.m. peak hour, and 685 daily trips.

3) **Future Operations:**

a. Year 2026 Build Conditions: The following study intersections were projected to experience unacceptable levels of service during peak hours:

i. 10th Street/Keats Avenue

ii. 10th Street/Lake Elmo Avenue

iii. 10th Street/Lake Elmo Elementary School Main Access

b. Trip Proportional Share: Existing issues were identified at the 10th Street/Lake Elmo Avenue intersection. Therefore, a trip generation analysis was conducted to determine the proportion of trips attributable to the proposed elementary school. It is anticipated that the elementary school will contribute seven (7) to 35 percent of the total traffic volume at this intersection.

c. Parent Pick-up/Drop-off Storage: Both schools are expected to have a deficit in on-site vehicular storage for parent pick-up/drop-off operations, which may cause impacts to the adjacent roadway network.

4) Recommendations:

a. Intersection Improvements: Traffic control improvements (i.e. traffic signal or roundabout) were recommended at the following study intersections to improve operations and safety. In addition, a northbound left-turn lane was recommended at the Lake Elmo Avenue/Lake Elmo Elementary School Bus Access intersection for safety purposes.

i. 10th Street/Keats Avenue

ii. 10th Street/Lake Elmo Avenue

iii. 10th Street/Lake Elmo Elementary School Main Access

b. Site Plan Recommendations: Recommendations were provided for both schools to improve internal circulation and expand on-site queuing storage to accommodate the increased vehicular demand expected during peak periods.

c. Pedestrian/Bicycle Connectivity: Enhancements were proposed to create safer connections for pedestrians and bicyclists, including trail extensions and new crossings, to promote active transportation.

Veneklasen Associates
Consultants in Acoustics | Noise | Vibration | AV | IT

August 22, 2024

Wold Architects & Engineers
332 Minnesota St., Suite W2000
Saint Paul, MN 55101

Attention: Matthew M. Mohr, AIA | Associate

Subject: **New Lake Elmo Elementary School Noise Study**
Lake Elmo, Minnesota
Property Noise Measurement Summary
Veneklasen Project No. 8512-002

Dear Matthew:

Veneklasen Associates, Inc. (Veneklasen) provides the following property acoustical measurement summary as compared to the applicable State noise codes for the subject project. The proposed project is planned due east of the existing Oakdale Gun Club in Lake Elmo, Minnesota. This report documents our findings.

Introduction

The subject project is proposed to be constructed on a corner lot directly due east, and to share a property line with, the existing Oakdale Gun Club, both located in Lake Elmo, Minnesota. The intention of this study was to determine whether existing activities from the gun club as measured at the proposed project property, as well as other planned outdoor activity areas for the school and at the westernmost portion of the school building, would comply with the applicable State noise codes.

An acoustical measurement survey was conducted to collect data from gun club activities at various areas of acoustic sensitivity, as defined by the appropriate State code criteria. This data was analyzed and compared against allowable property noise level limits to determine whether acoustic mitigation would be necessary to comply with code requirements. Note that discussion in this report is limited to evaluating acoustical measurements taken in the timeframe discussed later in this report. A revised version of this report further analyzing variations in gun club occupancy and type of firearm will be provided later.

Noise Criteria

The City of Lake Elmo has no specific criteria for property noise relating to firearms, shooting ranges, or gun clubs. Nor does it include any explicit prohibition of noise beyond subjective language. In instances such as this, it is appropriate to defer to the next level of noise code, which would be the State level.

Typically, this would solely be the Minnesota Pollution Control Agency (MPCA) Chapter 7030 “Noise Pollution Control”. However, the Minnesota Statutes 2023 Chapter 87A “Shooting Ranges” document has specific criteria that apply to shooting ranges and the like that explicitly modify the MPCA noise criteria. Both of these criteria are explained further below.

Section 87A.05 “Noise Standards” of the Minnesota Statutes document states the following:

> *Allowable noise levels for the operation of a shooting range are the levels determined by replacing the steady state noise L10 and L50 state standards for each period of time within each noise area’s classification with a single Leq(h) standard for impulsive noise that is two dBA lower than that of the L10 level for steady state noise. The noise level shall be measured outside of the range property at the location of the receiver’s activity according to the Minnesota Rules, parts 7030.0010 to 7030.0080, as in effect on May 28, 2005. For purposes of this section, “Leq(h)” means the energy level that is equivalent to a steady state level that contains the same amount of energy as the time varying sound level for a 60-minute time period.*

Per the MPCA chapter on noise control, an elementary school would be classified as a Noise Area Classification 1. Section 7030.0040 "Noise Standards" provides a table of allowable noise levels per noise metric (L_{10} or L_{50}), time of day, and Noise Area Classification. Table is summarized below.

Table 1. MPCA Property Noise Standards

Noise Area Classification	Daytime		Nighttime	
	L_{50}	L_{10}	L_{50}	L_{10}
1	60	65	50	55
2	65	70	65	70
3	75	80	75	80

Per discussions with the gun club management, the club closes for members at sundown. Daytime hours, per the MPCA, are defined as the hours between 7AM and 10PM. Based on the Noise Classification Area and the daytime operation, the standard MPCA criteria would be an L_{50} limit of 60 dBA and an L_{10} limit of 65 dBA. However, per Section 87A.05, these criteria are substituted for a single hourly equivalent (average) sound pressure level of 63 dBA (two decibels lower than the L_{10} limit).

Section 87A.04(a) "Mitigation Area" of the Minnesota Statutes document states the following:

> *Except for those uses, developments, and structures in existence or for which approval has been granted by October 1, 2005, or as provided in paragraph (b), no change in use, new development, or construction of a structure shall be approved for any portion of property within 750 feet of the perimeter property line of an outdoor shooting range if the change in use, development, or construction would cause an outdoor shooting range in compliance with this chapter to become out of compliance.*

This states that, given the school property has portions within 750 feet of the existing gun club property line, if gun club activities would exceed the 63 dBA limit discussed above, it is the responsibility of the Client to provide acoustic mitigation to comply. Per Section 87A.05, areas that must comply with this noise limit include areas of outdoor activity and the school building itself.

Acoustical Measurement Summary

An acoustic measurement survey was conducted to evaluate the existing impacts of gun club activities on the property line, as well as other proposed areas of outdoor activity per the applicable State code. These results were then compared to the allowable noise limit to determine whether additional steps towards acoustic mitigation were necessary.

Beginning on the 4th of July and going until the fall, the Oakdale Gun Club opens their club to the public on weekends. It is limited to membership only on weekdays in this period of time. It is understood that, during this period of time, occupancy increases on weekends because the club hosts both the public as well as its members. Therefore, it was Veneklasen's goal to conduct acoustic measurements over some of these July weekends to capture both "membership only" days as well as higher-occupancy weekends.

Veneklasen visited the site on Monday July 8, 2024 and set up four (4) noise monitors on the proposed project site to capture gun club activity noise. Acoustic data was captured over two (2) separate weekends and several weekdays. Per the code criteria, noise levels were evaluated by hour-long segments. Sounds not attributable to gun club activities (e.g., documented weather events using the Weather Underground website) were omitted from the analysis.

Table 2 and Figure 1 below show a summary of the collected noise data attributable to gun club activities as well as an aerial satellite image of the measurement locations. L1 was taken at the property line, L2 was taken at the nearest location of proposed outdoor school activities, L3 is the approximate edge of the 750-foot mitigation area discussed in the previous section, and L4 is the northwesternmost corner of the proposed school building.

Figure 1. Aerial Image of Project Site Showing Measurement Locations

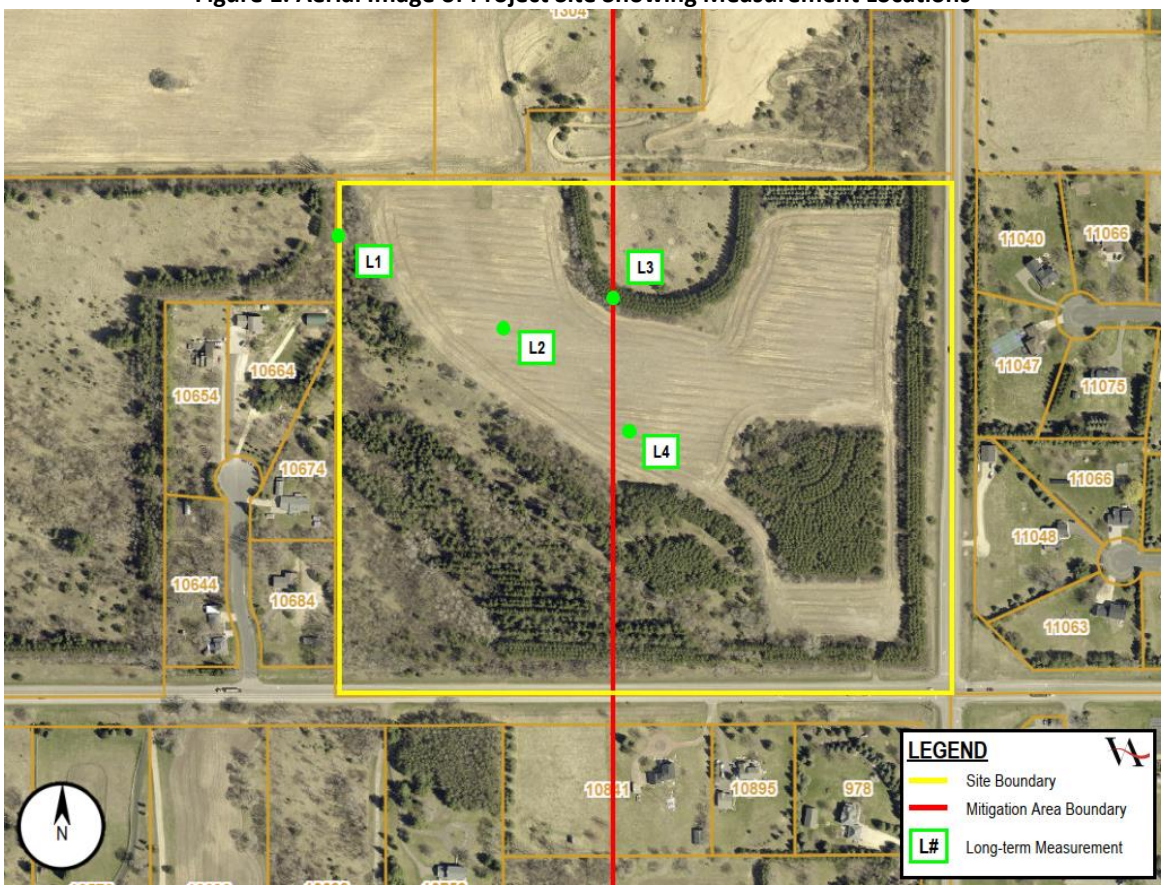


Table 2. Measurement Results Summary

Measurement Location	Weekday Results		Weekend Results	
	Average, LAeq(h)	Maximum, LAeq(h)	Average, LAeq(h)	Maximum, LAeq(h)
L1	46	49	47	55
L2	45	49	46	50
L3	47	49	50	53
L4	48	51	48	52

Note that often levels from L3 and L4 are louder than L1 and L2 despite being further away from the gun club. Our analysis of gun club activity noise has determined that often gun fire noise levels are equal to, or sometimes below, the existing ambient noise levels, which are dictated by nearby traffic noise. Measurement positions L3 and L4 are closer to the nearby roadways and the average hourly levels are therefore generally louder unless influenced by higher amounts of gunfire activity. Note that the maximum hourly level at L1 is louder at L1 than all other positions due to gun fire activity.

Summary

Understand that a further evaluation is still being conducted to account for the expected increased occupancy in autumn as well as the possibility of higher-caliber firearms and their affects on the property noise levels as compared to the applicable noise level limits.

However, as is indicated in Table 2 above, the loudest measured hourly level at the measurement locations indicated above were lower than the allowable noise limit per the MPCA and the Minnesota Statutes 2023 documentation pertaining to shooting ranges.

If you have any questions, please do not hesitate to call.

Sincerely,
Veneklasen Associates, Inc.

Kevin Patterson
Senior Associate

Arjun Shankar
Associate

MEMORANDUM

FOCUS ENGINEERING, inc.

Cara Geheren, P.E. **651.300.4261**
Jack Griffin, P.E. **651.300.4264**
Chad Isakson, P.E. **651.300.4285**

Date: September 23, 2024

To: Sophia Jensen, City Planner
Cc: Nathan Fuerst, Planning Consultant
Marty Powers, Public Works Director
Chad Isakson, PE, Assistant City Engineer
From: Jack Griffin, PE, City Engineer

Re: ISD 834 Lake Elmo Elementary School
PID 26-029-21-44-0001
Minor Subdivision and CUP

Engineering has reviewed the ISD 834 Lake Elmo Elementary School Site Plans received August 26, 2024 as part of their Minor Subdivision and CUP applications. The new school is proposed to be located at the corner of Lake Elmo Avenue (CSAH 17) and 10 Street (CSAH 10). The review consisted of the following documentation:

- Plat: 10th and Lake Elmo School Addition.
- Preliminary Plat and Plans dated August 23, 2024: C000, C001, C002, C050, C100-C105; C200-C205; C300-C305; C400-C405; C500-505.
- Stormwater Management Report dated August 23, 2024.
- Draft Geotechnical Report dated June 26, 2024.
- Traffic Study dated August 1, 2024.

FINAL PLAT: 10TH AND LAKE ELMO SCHOOL ADDITION

1. The Final Plat shall not be recorded until the City Engineer approves the Final Construction Plans.
2. County Roadway Right-of-way Dedication. Right-of-way dedication has been shown on the Plat along both Lake Elmo Avenue (CSAH 17) and 10th Street North (CSAH 10) to provide a total of 75-feet from referenced section line. The right-of-way dedication must be reviewed and verified by Washington County prior to recording a Final Plat to ensure the right-of-way dedication is sufficient for future County roadway improvements, including potentially a future roundabout complete with pedestrian facilities.
   - Additional right-of-way dedication appears to be needed at the northwest corner of Lake Elmo Avenue (CSAH 17) and 10th Street North (CSAH 10) to accommodate a site-triangle similar to the northeast and southeast corners.
3. All easements as required by the City Engineer and Public Works Director shall be documented on the Final Plat prior to the release of the Final Plat for recording. Easement revisions may be necessary to the Final Plat as the Construction Plans are reviewed and finalized. All easement areas must be free from all encroachments other than those approved by the City Engineer and upon execution of an easement encroachment agreement. Prohibited encroachments include, but are not limited to trees, structures, landscaping, fences, retaining walls, storm sewer running parallel with the easement, stormwater basins and BMPs, and grading that exceeds 4:1.
4. Dedicated drainage and utility easements, minimum 10-feet wide, are required along all public roadway frontage. Easements along public roadways, including Lake Elmo Avenue (CSAH 17) and 10th Street (CSAH 10), have been shown on the Final Plat as required.
   - Site and grading plan revisions will be necessary to remove grading and BMP encroachments to preserve the use of these easements for small/dry utility installation. Grading within the easement areas must be revised and the plans clearly labeled to be a 4:1 maximum slope.

5. Dedicated utility easements are required over all public watermain as determined by the City Engineer and Public Works Director. Easements must be a minimum width of 30-feet centered over all public watermain and each hydrant. Dedicated utility easements have been shown on the Final Plat. Revisions may be necessary as the Construction Plans are reviewed and finalized.
6. Drainage and utility easements are required over all stormwater BMPs, including the 100-year high water level areas, maintenance access roadways to a public right-of-way, maintenance benches, and over all emergency overflow locations and pathways. Stormwater management easements are shown on the Final Plat, but must be revised to incorporate all required elements as listed above. Easement revisions are necessary such that the Final Plat easements are consistent with the easements shown on the site and grading plans. Additional revisions may be necessary as the Construction Plans are reviewed and finalized.
7. The storm water management facilities will remain privately owned and maintained. A Storm Water Maintenance and Easement Agreement in the City's standard form of agreement must be executed and recorded with the Final Plat for all privately owned stormwater facilities.
8. All off-site permanent and temporary easements, if necessary to construct the proposed site improvements, must be acquired and provided to the City prior to the approval of the Final Construction Plans. Each easement, if needed, must be provided in the City's standard form of easement agreement.

TRANSPORTATION IMPROVMENTS, ACCESS AND COLLECTOR STREETS

1. Access Management. The proposed access locations along both Lake Elmo Avenue (CSAH 17) and 10th Street (CSAH 10) must be approved by Washington County.
2. Turn Lane Improvements. As part of the site improvements, dedicated right and left turn lanes must be constructed along Lake Elmo Avenue (CSAH 17) and 10th Street (CSAH 10) at both access locations. Turn lanes must be constructed meeting Washington County standards
3. Intersection Control Improvements. Traffic Control Improvements must be included as part of the site improvements for the opening of the school as recommended by Washington County. A traffic signal is required at the new access location along 10th Street North (CSAH 10), complete with crosswalks. A temporary wood-pole traffic signal, or alternate traffic control improvement approved by Washington County, is required at the intersection of Lake Elmo Avenue (CSAH 17) and 10th Street (CSAH 10), complete with crosswalks.
4. Emergency Service Access. Emergency vehicle access to and throughout the site must be reviewed and approved by the Lake Elmo Fire Department.
5. Bituminous Trails. The site improvements include the construction of a bituminous trail along the east and south sides of the site long Lake Elmo Avenue (CSAH 17) and 10th Street (CSAH 10). The grading plans should be revised to eliminate the drainage swale obstruction that will impede any future extension of the trail to the west along 10th Street (CSAH 10). Consideration should also be given to the provision of pedestrian connectivity internal to the school property and connection to the County Park Preserve.

STORMWATER MANAGEMENT

1. The site plan is subject to a storm water management plan (SWMP) meeting State, Valley Branch Watershed District (VBWD) and City rules. Storm water facilities proposed as part of the site plan to meet State and VBWD permitting requirements must be constructed in accordance to City Engineering Design Standards dated January 2022, even though the facilities will remain privately owned.
2. The stormwater management mitigation must be provided for all required site improvements, including the County roadway and intersection improvements, County roadway turn lanes, and all bituminous trails.
3. In addition, it should be condition of the minor subdivision approval that the stormwater management BMPs be oversized to accommodate the future County roadway improvements to be constructed by the County at a future date. The stormwater BMP oversizing must address the additional proposed impervious surface areas as provided by Washington County.
4. All stormwater facilities and BMPs will be privately owned and maintained by the school district. The school district will be required to provide a Stormwater Maintenance and Easement Agreement in accordance with the City's standard form of agreement.

5. All storm water basins must be placed in easements in accordance with the Stormwater Maintenance and Easement Agreement. The easements must fully incorporate the 100-year high water level areas, 10-foot maintenance bench, maintenance access roadways to a public right-of-way, and over all emergency overflow locations and pathways.
6. The SWMP will be required to verify that rate control and volume control requirements are met for all points of discharge from the site. The existing and proposed drainage exhibits must clearly show and label all points of discharge from the site, including any required public improvements and turn lanes. The SWMP rate control tables must reference each discharge location independently and combined.
7. Overland emergency overflows or outlets will be required as part of the site and grading plans.
8. All infiltration basins shall be sized using design infiltration rates based on actual soil borings obtained from within the basin footprint at the proposed basin bottom elevation. Soil borings must be taken for each infiltration basin in the number and to the depths required by the VBWD and City design standards. Soil boring information submitted to date remains insufficient.
9. All wetlands and wetland buffers must be delineated and protected by easement.
10. Minimum floor elevations must be at least 2 feet higher than the adjacent 100-year HWL elevation. Also, all low opening elevations for all buildings must be at least 1-ft higher than any adjacent emergency overflow elevation (EOF). All building low floor and low opening elevations must be clearly labeled on the grading plans.
11. All localized low points (catch basins) and low areas (land locked basins) must be protected within a drainage easement up to the 100-year high-water level. The grading plans must be revised to label and clarify the purpose of all low areas.
12. The grading plans must label all steep slope areas with notations indicating the maximum allowable grading slopes.
13. The grading plans must label all basin maintenance access roadways, label the maximum slope as 10%, and label the maintenance roadway width as 20-feet.

MUNICIPAL WATER SUPPLY

1. Connection to the municipal water system is available to the existing trunk watermain running along Lake Elmo Avenue (CSAH 17). The applicant will be responsible for connecting to the existing 16-inch trunk watermain along Lake Elmo Avenue (CSAH 17) in two locations to create a looped watermain network around the new school. A minimum 8-inch ductile iron watermain shall be extended internal to the site and throughout the property as necessary to provide connection to all proposed uses.
2. The project will require the placement of fire hydrants and water system valves internal to the site as determined by the Lake Elmo Public Works Director and Fire Department. The site plans show the watermain extension, hydrant locations and system valves generally consistent with City requirements. Revisions may be necessary as the Construction Plans are finalized.
3. Minimum 30-foot easements centered over the pipe/hydrant have been shown on the plans as required.
4. No watermain oversizing is anticipated as part of this Project.

SANITARY SEWER SYSTEM

1. A Comprehensive Plan Amendment has been approved to expand the Municipal Urban Service Area (MUSA) for the property. Therefore, the extension of public sanitary sewer service will be required to serve the new elementary school.
2. The applicant will be required to construct a privately owned and maintained sanitary lift station on the district property and extend a private forcemain to a designated connection point to be located on the northeast corner of Lake Elmo Avenue (CSAH 17) and 10th Street (CSAH 10). The private forcemain will be combined with a new public forcemain to be installed by the City and extended south along Lake Elmo Avenue (CSAH 17) to an existing trunk sanitary sewer at 5th Street.
3. The new school sewer service would discharge by gravity to the new lift station.
4. Plan revisions are required for the private lift station facility to ensure that the facility is fully located on district property and that the maintenance access is internal to the school property, fully outside all required right-of-way dedication.

5. It is anticipated that the sanitary sewer improvements will be partially constructed though a public improvement project with both the private and public improvements to be paid by the District.

FINAL CONSTRUCTION PLANS & SPECIFICATIONS

1. Final Construction Plans and Specifications must be prepared and submitted for City review and approval. The plans and specifications must be in accordance with the City Engineering Design Standards Manual dated January 2022, using City standard details, plan notes and specifications and meeting City Engineering Design Guidelines, unless approved otherwise by the City Engineer.
2. No construction on the Project may begin until the applicant has received City Engineer approval for the Final Construction Plans; the applicant has obtained and submitted to the City all applicable permits, easements and permissions needed for the project; and a preconstruction meeting has been held by the City's engineering department.
3. Existing Conditions Plans C100-C105. Revise plans to include all required information and labeling to fully depict the existing site conditions. In particular, the existing condition information is insufficient along the existing roadway corridors.
4. Site Plans C200-C205. Revise the site plans to include all required transportation improvements including safe pedestrian crossing and intersection controls as required by Washington County.
5. Grading Plans C300-C305. Revise the grading plans to eliminate all easement encroachments along Lake Elmo Avenue (CSAH 17) and 10th Street (CSAH 10). Revise the grading plans to provide all required stormwater BMP design information and labels.
6. Utility Plans C400-C405. Relocate the proposed sanitary lift station to be outside the right-of-way sight triangle and revise the lift station maintenance access to be internal to the site. Label all utilities as public or private owned and maintained. Provide more design details for all work within the public right-of-way.

LAKE ELMO FIRE DEPARTMENT – OFFICE OF THE FIRE MARSHAL

Fire Prevention, Code Enforcement, and Public Education

September 18, 2024

Sophia Jensen, Planner
City of Lake Elmo

Re: Conditional Use Permit Review of Lake Elmo Elementary (10928 10TH Street North)

Prepared by: Anthony Svoboda, Fire Marshal
Approved by: Dustin Kalis, Fire Chief

Applicable Codes:

- 2020 Minnesota State Fire Code
- 2020 Minnesota State Building Code
- Lake Elmo Fire Department Fire Code Policies
- NFPA 13, 2016 edition
- NFPA 13D, 2016 edition

Fire Department Comments:

1) All roads and drive lanes shall meet the Lake Elmo Fire Department requirements for widths and turning radiuses.

2) Approved fire apparatus roads shall be provided and maintained in coordination with engineering, public works, planning, and fire departments. In accordance with MSFC D104.2, two fire apparatus access roads shall be required and maintained at all times.

3) Project construction phasing shall accommodate emergency access to the entire construction zone at all times, generally meaning two separate means of entrance/exit as defined in the code. Phasing plan to be approved by the fire department prior to construction.

4) An approved signage and marking plan shall be determined for all No Parking and Fire Lane access roads. On-street parking shall be provided in approved locations following review by Engineering and Public Works. Parking shall be prohibited on both sides of private drive lanes.

5) Street names and addressing shall be consistent with the Washington County Uniform Street Naming and Property Numbering System.

6) Fire hydrants and watermains shall be provided in approved locations following review by Engineering and Public Works.

7) Building address numbers shall be plainly visible from the street fronting the property and shall be contrasting color from the background. Size and placement of address numbers shall be approved by the fire and planning departments.
    a. Buildings address of 10928 10TH Street North, Lake Elmo, MN 55042 has been approved.

8) A fire sprinkler system shall be installed in commercial buildings in accordance with the Minnesota State Fire Code and Chapter 1306 of the Minnesota State Building Code. A permit is required prior to work.
    a. *Fire Department sprinkler connection locations shall be approved prior to installation*.

9) A fire alarm system shall be installed in commercial buildings in accordance with the Minnesota State Fire Code (907.2.3) and Lake Elmo Ordinances. A permit is required prior to work.

10) An emergency responder radio coverage amplifier shall be installed throughout the building if the fire department determines that signal strength is not reliable.

11) An exterior door numbering system shall be utilized to determine exterior doors on all sides of the building. *Door numbering convention shall be approved by the fire department prior to installation*.

12) A KNOX rapid access lockbox shall be installed *in an approved location*, on all commercial buildings.
    a. Multiple KNOX rapid access lockboxes may be required as determined by the fire department.

13) KNOX locking Fire Department Connection Caps shall be installed on all fire department connections.

14) All gates, whether manual or electric, shall be accompanied by either a KNOX lock or KNOX gate control switch for rapid access.

15) All parking areas shall be capable of supporting the imposed load of fire apparatus weighing up to 75,000 pounds.

Questions, clarifications, or the request to provide code documents can be made using the contact information listed below.

Respectfully,

Anthony Svoboda

Anthony Svoboda | Assistant Chief
Lake Elmo Fire Department
Fire Station #1 - 3510 Laverne Ave N. | Lake Elmo, MN | 55042
651-747-3907 *office* | www.lakeelmo.org

Memorandum

September 12, 2024

TO: SOPHIA JENSEN

FROM: SARAH EVENSON, PLA

RE: STILLWATER ELEMENTARY LANDSCAPE AND TREE PRESERVATION PLAN REVIEW

SUBMITTALS

1. CUP and Preliminary Plat Submittal, dated 8/19/24 received 8/26/24

REVIEW HISTORY

1. 09/12/24 – CUP and Preliminary Plat Landscape Plan Review

LOCATION: Northwest corner of the intersection of 10th Street North and Lake Elmo Avenue North

CURRENT LAND USE CATEGORY: Public Facilities (PF)

ADJACENT AND SURROUNDING LAND USE: PF and Rural Single Family to the north, Rural Single Family to the east, and Rural Single Family and Rural Residential to the south and west (including the gun club)

SPECIAL LANDSCAPE PROVISIONS: 750' sound buffer from adjacent gun club. Exemption request for mitigation of owner-planted trees.

TREE PRESERVATION PLAN: 105. 12. 470

- A tree preservation plan will need to be submitted that meets code, including, but not limited to:
  - The applicant has submitted supplementary information that supports the granting of a variance that would allow them not to mitigate trees planned to be removed that were planted by the previous landowner. As such; these trees will not be considered in the tree preservation and mitigation calculations. However, the removal of more than 30% of the naturally occurring significant tree inches onsite still requires mitigation.
  - 1,969 qualifying (naturally occurring) significant inches exist. 590 are allowed to be removed without mitigation. The plan proposes removing 739 significant inches of qualifying trees, which leaves 149" that must be mitigated. No credit is to be given for preserving "previous owner planted" significant inches.
  - In order to determine the number and type of mitigation trees required, the applicant must create a table that breaks out the significant common, coniferous/evergreen, and hardwood deciduous trees planned to be removed, per 105.12.470 (c) (8). Any inches removed over the allowed 30% will need to be replaced at the following percentages: common tree species will need to be replaced at 25% of the inches removed and evergreen/hardwood trees need to be replaced at 50% of the inches removed.

800 Washington Avenue North, Suite 103
Minneapolis, MN 55401

HKGi
Planning | Landscape Architecture | Urban Design

- Revise the last row of the table on sheet L1.000 to remove reference to a credit and instead include the breakdown of common, evergreen, and deciduous inches to be mitigated and the corresponding number of required mitigation trees.
- Replace the tree protection detail on sheet L1.000 with the city standard tree protection detail.

LANDSCAPE PLAN: 105.12.480

- A landscape plan as submitted does not currently meet code, and needs to be revised as follows and resubmitted prior to approval:
  - The landscape plan must be revised to include the addition of the appropriate number of mitigation trees required to meet tree preservation code.
  - Additional trees should include enough evergreens to put the proposed trees into compliance with the code's tree composition requirements. More than 25% of proposed trees need to be evergreen and fewer than 15% can be ornamental.
  - Provisions for irrigation are required, whether through an irrigation plan, or a commitment to hire out watering for the duration of the 2-year warranty period.
  - Show the location of a topsoil stockpile and provide notes indicating that the quantity of soil shall be sufficient to cover all landscaped areas at least 4" deep.
  - Ensure that per 105.12.480 (b) (7) trees shall be planted ten feet away from utilities including water and sewer stubs.
  - Screening- Requirements of 105.12.480 (f) Screening is required between more intensive and less intensive land uses- add or adjust spacing of screening trees along northern drive and play area so that spacing does not exceed 40'.

TREE PLANTING REQUIREMENTS	SITE MEASUREMENT	CODE REQUIRED	PROPOSED
Required street frontage trees (1 per 50 lf or 1 tree/lot minimum)	2790 lf	55	55
Required lake or stream trees (1 per 50 lf along shoreline, except where natural vegetation exists)	0	0	0
Required development trees (5 per acre disturbed)*	34 acres	170	170
Required Mitigation Trees		TBD	
Required perimeter screening trees (1 per 40 lf)*			
Required parking lot trees	224 stalls	15	15
Total Required Trees			253

**Per 105.12.480 (c)(2) development or disturbed area trees can be utilized as screening trees.*

TREE COMPOSITION REQUIREMENTS	QUANTITY	% COMPOSITION	REQUIREMENT
Deciduous Shade Trees	186	74%	>25% Required
Coniferous Trees	23	9%	>25% Required
Ornamental Trees	44	17%	<15% Required
Tree Count	253		

RECOMMENDATION:

The landscape and tree preservation plans must be revised and resubmitted to address the items in this memo.

Sarah Evenson, PLA (MN)
City of Lake Elmo Municipal Landscape Architect
P: (262) 391-7653 E: sarah@hkgi.com

PUBLIC WORKS
Wayne Sandberg, P.E., Director, County Engineer
Frank D. Ticknor, P.E., Deputy Director

September 18, 2024

Sophia Jensen
City Planner
City of Lake Elmo
3880 Laverne Avenue
Lake Elmo, MN 55042

Lake Elmo Elementary School

Dear Sophia,

Thank you for the opportunity to review and comment on the proposed Lake Elmo Elementary School application at the intersection of County State Aid Highway 17 (Lake Elmo Avenue) & CSAH 10 (10th Street). The county thanks the City of Lake Elmo and the Stillwater School District for meeting with the county to discuss the proposed new school location that meets the community's needs while also providing for safe transportation connections. The county will continue coordinating with the district and city on this proposed school; below are some comments that the County has for the proposal.

As we have shared, the proposed rural location adjacent to two high-speed county highways presents several significant challenges related to nonmotorized access and traffic safety and operations; these concerns are identified in the traffic study. By their nature, County Highways manage regional traffic (vehicular, freight, transit, bicycle, pedestrian, etc.) at higher average speeds. With Washington County currently the fifth fastest-growing county in the state, containing two of the top ten fastest-growing cities in the state (Woodbury and Lake Elmo), we would be irresponsible in not planning for the future of this area. We offer the following comments regarding the new design of the school site and the traffic study.

1. The site plan indicates right turn lanes at both proposed access points; the county would also require dedicated left turn lanes as a condition of access permit approval.
2. The traffic study indicates a significant delay for motorists at the intersection of CSAH 10 and CSAH 17 (overall Level of Service F), with queues extending well beyond the available storage. Washington County expects that the development team will mitigate these operational and safety issues prior to school opening. The intersection of CSAH 10 & CSAH 17 is tentatively scheduled in the County's draft Capital Improvement Plan for construction of improvements in 2028, with $4M total planned investment. This is a significant investment, largely driven by the placement of the school at its proposed location. Washington County appreciates the City's support in planning for this improvement during the design of the Lake Elmo Elementary School.
3. The traffic study recommends a traffic signal or roundabout at the County Highway 10/Lake Elmo Elementary School main access. Washington County expects that this will be installed by the development team without city or county cost contribution as a condition of access approval, and operational prior to opening of the school.

4. The traffic study recommends a northbound left turn lane at the County Highway 17 (listed as 10th Street in the traffic study)/Lake Elmo Elementary Bus Access due to high speeds; Washington County concurs with this recommendation if left-in access is to be provided at this location. Washington County continues to view this access as unnecessary, as inbound and outbound buses could be provided safe and efficient access to the county highway system via the controlled intersection at the proposed 10th Street access. If the developer feels that an access to Lake Elmo Avenue must be installed, Washington County expects that this intersection will be designed and constructed as a ¾ access preventing eastbound 'left-outs' from the School site and directing all traffic to turn south. The Oak-Land Middle School has this configuration at its bus-only access to County Highway 15 as well. Restricting exiting traffic to right turns only helps prevent the excessive delays that may be experienced by left turns which would in turn generate demands for an additional traffic signal or roundabout to provide safe left-out access.
5. The traffic study states that "the expected storage needed for an enrollment of 1100 students is approximately 2400 feet long" but only 2100 feet of storage is provided. Washington County cannot allow queuing to extend onto County rights-of-way and infrastructure, and will not permit an access that does not provide for adequate on-site storage at day of opening and under a future 'full-build' condition.
6. The intersection of CSAH 10 & CSAH 19 is in the draft CIP for construction 2029, with $5.25M total planned investment.
7. Minimizing unnecessary access to county highways allows for turning movements to be consolidated to locations where improvements such as turn lanes, traffic signals, and roundabouts can mitigate traffic conflicts. As a condition of access permit approval, the county may require the removal of other pre-existing access points and may also require the applicant to mitigate the traffic safety and operational impacts of the proposed new access through the installation of various highway improvements including turn lanes, traffic signals, or roundabouts Still haven't heard a compelling reason for this access.
8. School District staff have communicated that busing will be provided for students in neighborhoods surrounding the new Lake Elmo Elementary, but this appears to conflict with information provided on the district's website stating, *"Routes are currently being redrawn to give priority to all students living 2 miles or further from school and others required by law to receive busing. The 2 mile no busing zone means families living within 2 miles of school who do not have a bus available will have to find alternative transportation."* (https://www.stillwaterschools.org/our-district/news/district-news-detail/~board/district-news/post/bus-routes-and-school-start-times-will-be-changing#:~:text=Routes%20are%20currently%20being%20redrawn%20to%20give%20priority,bus%20available%20will%20have%20to%20find%20alternative%20transportation). Even when bus transportation is provided, it is imperative to provide safe walking routes for students who wish

to walk, and encouraging walking promotes health and reduces vehicular traffic demands. Washington County expects that non-motorized access to the school will be prioritized by the development team and available to students at the day of opening. This will reinforce the public nature of the amenities proposed for this site.

Given the continued and rapid progress on the project plans we felt it was important to reiterate the following comments:

While the placement of schools along highways enables convenient vehicle access, these locations also present safety issues for vehicles and pedestrians that defy easy or effective solutions. Given the ongoing prevalence of student drop-offs, school sites often generate significant inbound queues that sometimes extend onto highway shoulders, into turn lanes, and sometimes even obstructing highway through lanes, with safety repercussions. Providing adequate internal stacking can consume significant amounts of space but is necessary to prevent congestion from extending onto highways. Experience with school speed limits and/or flashing lights suggests that they have very limited effectiveness in slowing traffic down and can cause a large variability of speed, which is itself a safety concern. Even costly solutions such as traffic signals are often seen as a barrier for pedestrians due to the high vehicle volumes and less-than-perfect behavior by drivers.

Safe access to the site for students and others who wish to arrive by walking or biking from existing nearby neighborhoods, both to provide safe walking routes and safe crossing points of the county highways remains a priority for Washington County Public Works. The school district must consider and plan for pedestrian infrastructure within walking distance of the school, notwithstanding any current policies related to bus transportation. The pedestrian routes should connect with nearby neighborhoods, both existing and planned, and should provide reasonably direct access into the school site itself. A preliminary assessment suggests that upwards of four miles of new trail would be needed to connect existing neighborhoods to the school site. Washington County does not have any available funding for these necessary trail linkages in our 5-year Capital Improvement Plan.

The Washington County 2040 Comprehensive Plan contains access criteria for county roads related to spacing, sight lines, and availability of local road connections. School sites typically generate significant traffic volume and queuing; therefore, the County appreciates the School District's work to complete a traffic study to better understand the anticipated traffic operations at the proposed access locations and affected nearby intersections. Washington County access spacing guidelines for minor arterial roads (both County Highway 17 and County Highway 10) is ¼ of a mile (1,320 feet). Partial reductions in this spacing may sometimes be considered in favor of other safety aspects, such as optimizing sight distance or maximizing spacing from other existing intersections.

Access permits will be needed for the construction of new driveway connections within the county right-of-way, and will require the construction of turn lanes into the site and the provision of adequate internal stacking space to prevent congestion from extending onto the county highway.

The Washington County Comprehensive Plan indicates that 75 feet of right-of-way from the centerline should be secured at the time of development along both CSAH 10 and CSAH 17. The city will be responsible for the costs of future right-of-way acquisition if not secured at the time of development, in accordance with Washington County Cost Participation Policy #8001 as previously referenced.

A Right-of-Way Permit will be required for any work within the County highway right-of-way as it relates to the development. As the development progresses, a plan set will be required with the application and include any grading, culvert installation, water and sewer services, parallel trail development, signage, and any landscaping and other improvements within the County right of way.

All utility connections to County highway right of way for the development will also require their own Washington County Right of Way permits. Typically, these utility connection permits are the responsibility of the utility companies.

The desire for regional stormwater remains. With review of the stormwater management report, it appears that the planned infiltration basins have additional capacity to manage the county ROW runoff in the future. The landlocked basins on site create some challenges but from our review it appears feasible. The County requests continued coordination to provide stormwater management. The County has a future project planned with the onset of the new school site, partnering on stormwater management will help the County and City reduce the number of challenges the future project will pose. This may require re-working of the proposed infiltration basins to allow the county road to drain to the new ponds, either via ditches or storm sewer.

County Road 10 and County Road 17 are both listed as priorities for future paved trail development in Washington County's Bike and Pedestrian Plan as high and medium priorities, respectively. This underlines the importance of planning for these future trails as part of the overall site design, including right-of-way dedication (listed above), grading, and landscaping.

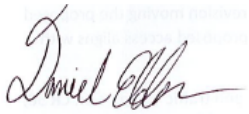
Pedestrians from nearby neighborhoods, especially Cimmaron residents, will want to cross the County Road 10 and County Road 17 intersection to access the future school and Lake Elmo Park Reserve. The proposed design and layout should thoughtfully and safely accommodate these users with connections that are direct and don't require crossing parking lots and vehicle access roads.

Lake Elmo Park Reserve is owned and operated by Washington County Parks. This land is protected in perpetuity as part of the Metropolitan Regional Parks system and will not be available for any future expansion of the proposed school or any other school district use.

Washington County Parks would support a safe and accessible trail connection from the school directly to the existing trail network within Lake Elmo Park Reserve. Note that the existing trails closest to the school are ski trails in the winter. Thus, a gate would be needed so the park could seasonally close the trail to prevent impacts from walkers on groomed ski trails. Additionally, fencing and/or native vegetative screening at the property border with park will be needed. Please contact County Parks staff for additional guidance on this or the trail connection route.

Thank you again for the opportunity to provide comments on the traffic study for Lake Elmo Elementary. We look forward to continuing to work with the City of Lake Elmo to ensure that development in this area is successful and well-served by the transportation network.

Sincerely,



Daniel Elder
Planner II

Cc (email only):

Kevin Corbid, Washington County Administrator
Jennifer Wagenius, Washington County Deputy Administrator
Jan Lucke, Washington County Deputy Administrator
Wayne Sandberg, Public Works Director/County Engineer
Frank Ticknor, Deputy Director Public Works
Lyssa Leitner, Public Works Planning Director
Joe Gustafson, Traffic Engineer
Kevin Peterson, Design Engineer
Alex McKinney, Parks Director
Mark Drommerhausen, Director of Operations Stillwater Area Public Schools
Dr. Michael Funk, Superintendent Stillwater Area Public Schools