

9-3 bed rowhouses

27 total bedrooms, 9 total units

29,155 SF site area 6,615 SF building footprints combined 1,085 SF common open space (courtyard)

730 SF enclosed common shared amenity area

6,542 SF surface parking and access

8 surface spaces 18 enclosed spaces 26 spaces total

CONSTRUCTION **ELIMINARY- NOT FOR**

Wildwood Rowhomes
2502 County Rd E East
White Bear Lake, MN

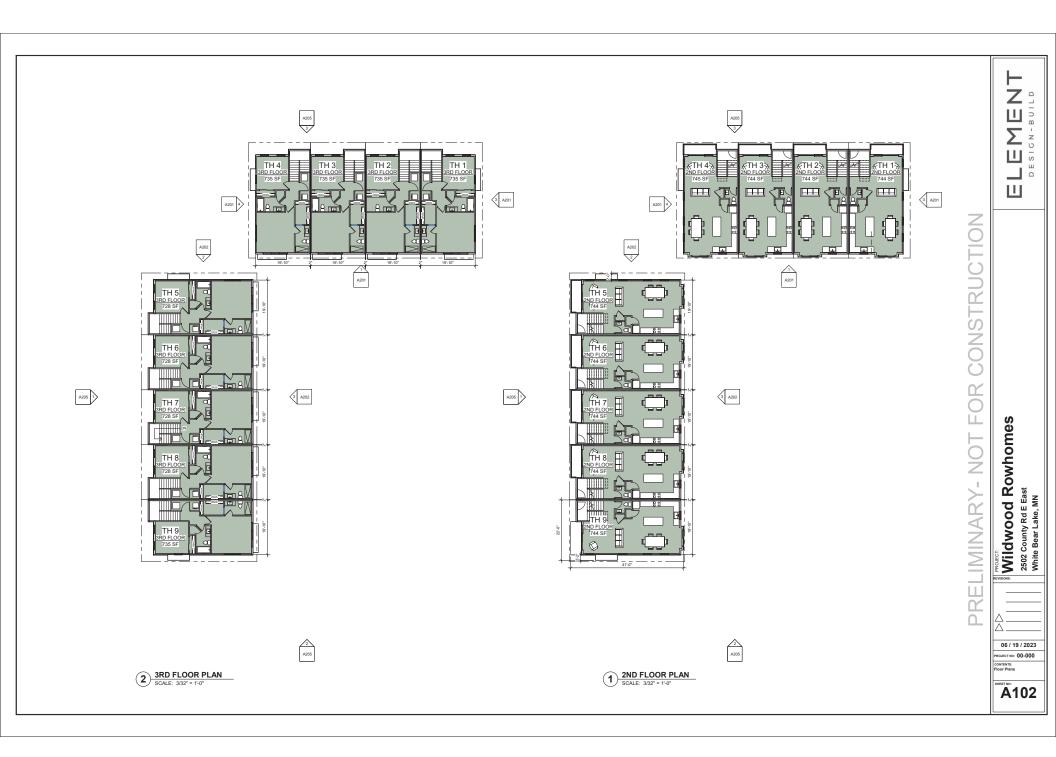
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06 / 19 / 2023

ROJECT NO: 00-000

A101









06 / 19 / 2023

ROJECT NO: 00-000 CONTENTS: Elevations - Building 1, Community Room

A201



5 NW ELEVATION - COMMUNITY ROOM
SCALE: 1/8" = 1'-0"

MATER	MATERIAL SCHEDULE - AMENITY - NW				
Designation	Description	Area	Percentage		
B2	Brick - Modular - Painted	331 SF	100%		



MATERI	AL SCHEDULE - AMENITY -	SE	



7 SW ELEVATION - COMMUNITY ROOM
SCALE: 1/8" = 1'-0"

MATER	AL SCHEDULE - AMENITY	- SW	
Designation	Description	Area	Percentage
B2 :	2 Brick - Modular - Painted		100%



8 NE ELEVATION - COMMUNITY ROOM SCALE: 1/8" = 1'-0"

MATER	RIAL SCHEDULE - AMENITY - NE		
Designation	Description	Area	Percentage
B2	Brick - Modular - Painted	215 SF	100%



MATERIAL SCHEDULE - TH - EAST					
Designation	Description	Area	Percentage		
B1	Manufactured Stone	184 SF	19%		
S1	Fiber Cement Lap Siding - Medium	502 SF	53%		
S2	Fiber Cement Shake Siding - Dark	269 SF	28%		



NORTH ELEVATION - BUILDING 1

SCALE: 1/8" = 1'-0"

MATERIAL SCHEDULE - TH - NORTH					
Designation	Description	Area	Percentage		
B1	Manufactured Stone	153 SF	9%		
S1	Fiber Cement Lap Siding - Medium	1269 SF	78%		
S2	Fiber Cement Shake Siding - Dark	207 SF	13%		

MATERIAL SCHEDULE - OVERALL

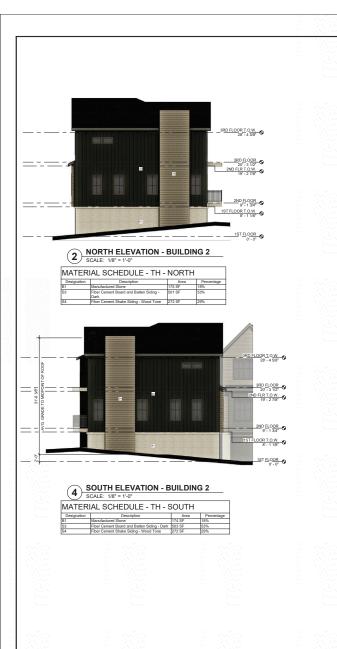


WEST ELEVATION - BUILDING 1
SCALE: 1/8" = 1'-0"

Designation	Description	Area	Percentage
B1	Manufactured Stone	183 SF	19%
S1 .	Fiber Cement Lap Siding - Medium	506 SF	53%
S2 ·	Fiber Cement Shake Siding - Dark	272 SF	28%

SOUTH ELEVATION - BUILDING 1
SCALE: 1/8" = 1'-0"

MATERIAL SCHEDULE - TH - SOUTH					
Designation	Description	Area	Percentage		
B1	Manufactured Stone	33 SF	2%		
S1 .	Fiber Cement Lap Siding - Medium	1277 SF	71%		
S2 .	Fiber Cement Shake Siding - Dark	492 SF	27%		







3 EAST ELEVATION - BUILDING 2
SCALE: 1/8" = 1'-0"

MATERIAL SCHEDULE - OVERALL

MATER	AL SCHEDULE - TH - EAST		
Designation	Description	Area	Percentage
	Manufactured Stone		2%
	Fiber Cement Board and Batten Siding - Dark	1594 SF	73%
S4	Fiber Cement Shake Siding - Wood Tone	552 SF	25%

ELIMINARY- NOT FOR CONSTRUCTION

Wildwood Rowhomes
2502 County Rd E East
White Bear Lake, MN

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06 / 19 / 2023 ROJECT NO: 00-000

Elevations - Building 2

SHEET NO:

A202



PRELIMINARY- NOT FOR CONSTRUCTION

Wildwood Rowhomes
2502 County Rd E East
White Bear Lake, MN

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Sions:

06 / 19 / 2023

ROJECT NO: 00-000

CONTENTS:

Exterior Views

CONTENTS:
Exterior Views
SHEET NO:
A203



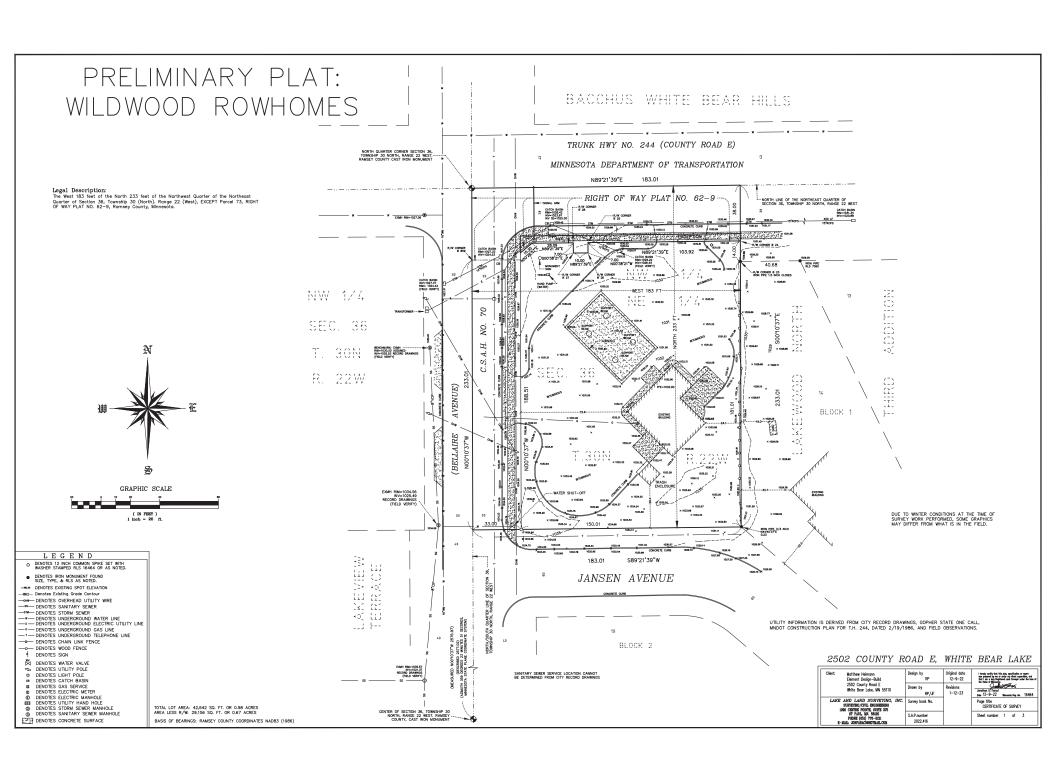
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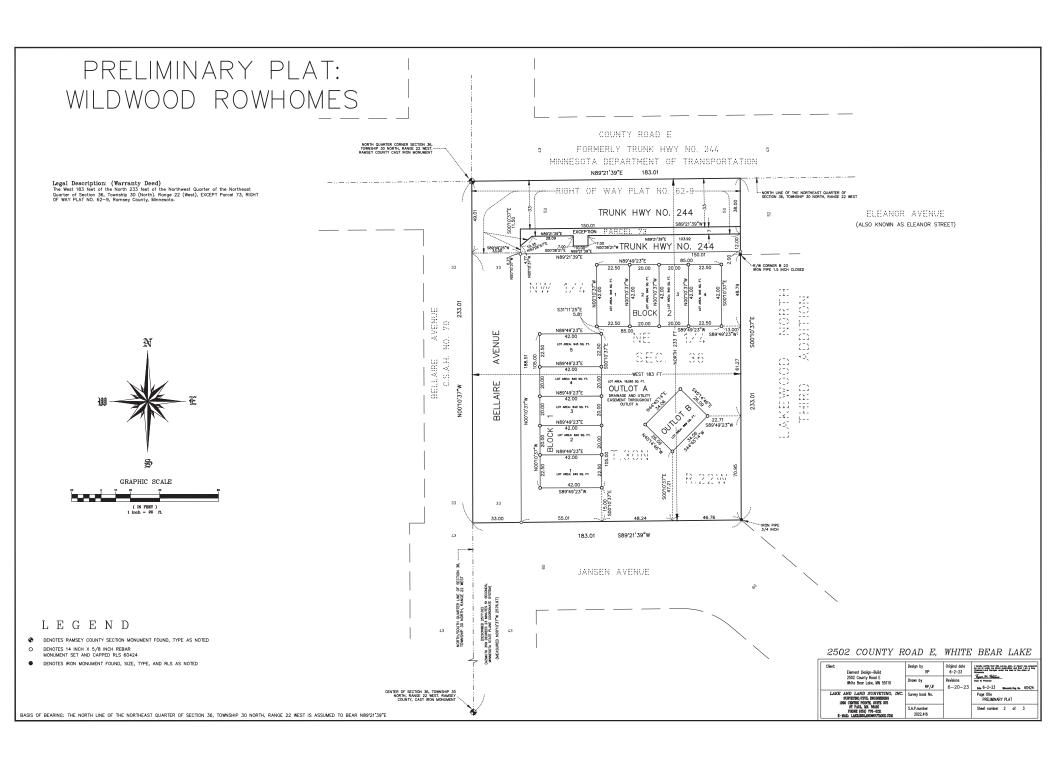
Wildwood Rowhomes
2502 County Rd E East
White Bear Lake, MN

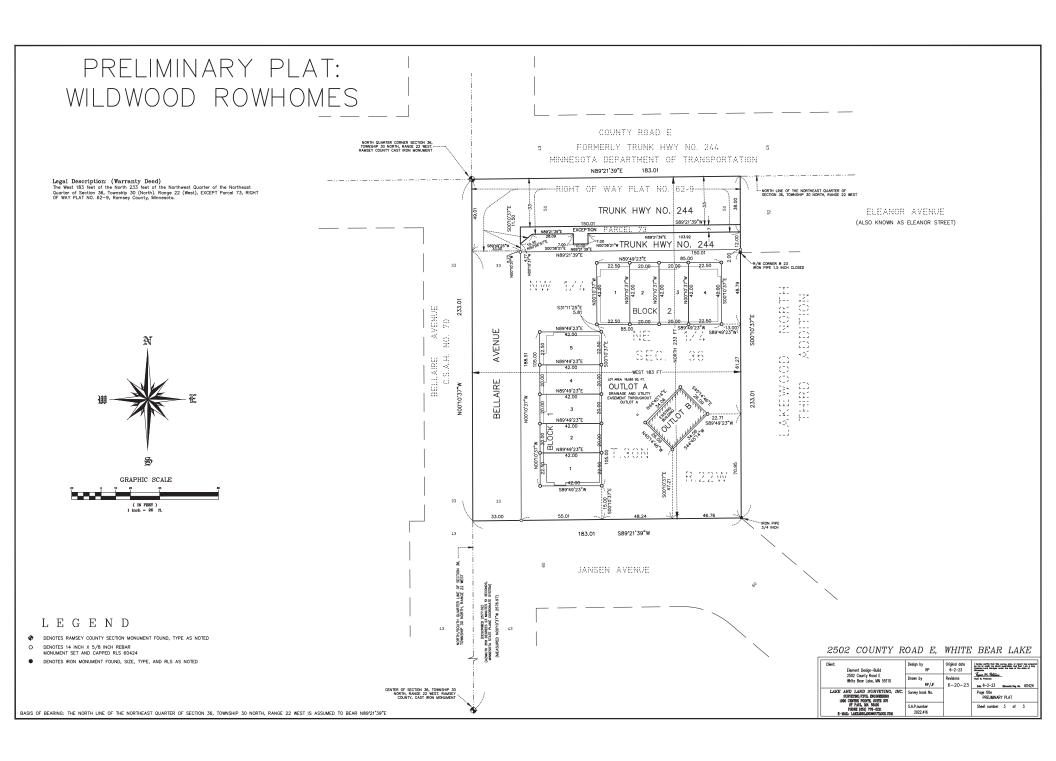
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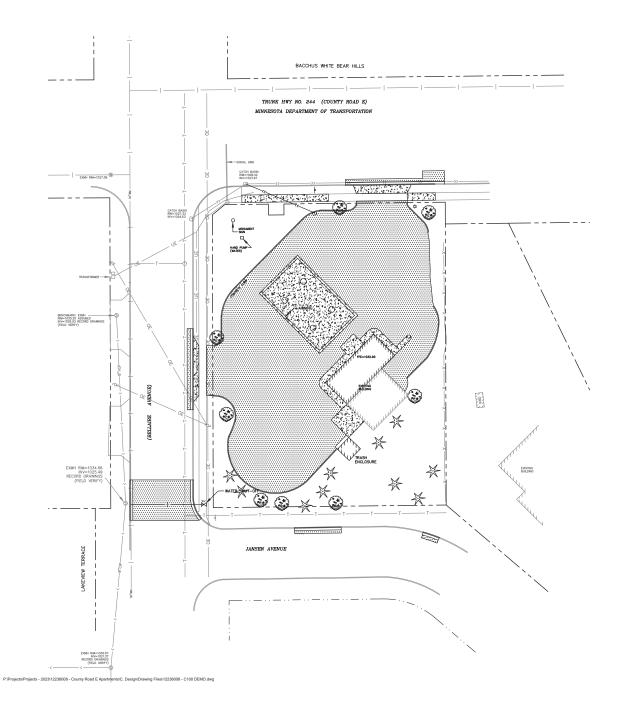
06 / 19 / 2023 PROJECT NO: 00-000

A204











KEY NOTES

- 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.
- All construction shall be performed in accordance with state and local standard specifications for construction.

SYMBOL LEGEND

REMOVE AND DISPOSE OF EXISTING CONCRETE PAVEMENT SECTION

DEMOLITION NOTES

- 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.

WILDWOOD ROWHOMES 2502 CO RD E EAST WHITE BEAR LAKE, MN 55110

PRELIMINARY NOT FOR CONSTRUCTION

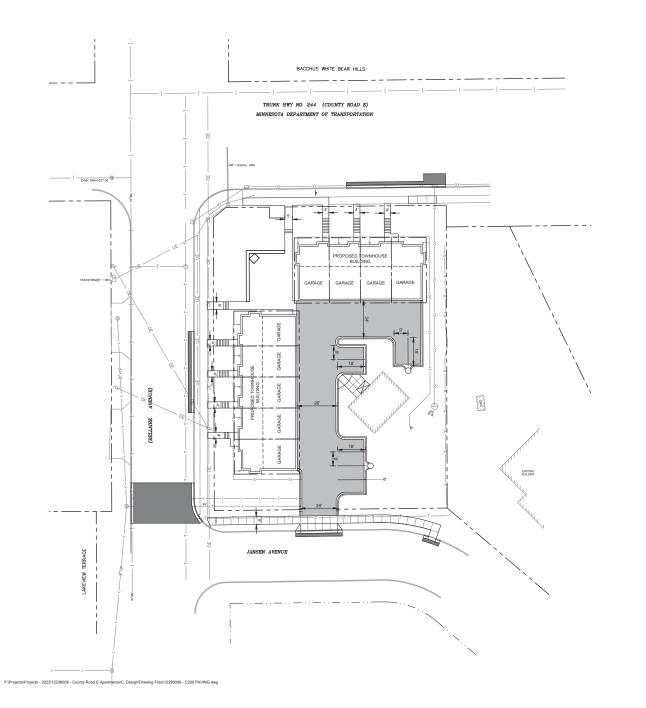
ELEMENT
DESIGN-BUILD
1110 RAYMOND AVENUE, UNIT 3
ST. PAUL, MN 35108

specifications or report was prepan by me or under my direct supervision and that I am a duly licensed Professional Engineer under the law of the state of Minnesota.

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Checked By: MJW
Issue Date: 06.20.23 Sheet Title:

DEMOLITION PLAN







MATCH EXISTING PAVEMENT THICKNESS SEE DETAIL



NEW LIGHT-DUTY CONCRETE PAVEMENT SEE DETAIL



NEW HEAVY-DUTY CONCRETE PAVEMENT SEE DETAIL

NOTE: THE CONCRETE JOINTS ARE SHOWN ONLY FOR GENERAL REFERENCE TO SIGNIFY LIGHT-DUTY CONCRETE PAVEMENT. ACTUAL JOINTS SHALL BE CONSTRUCTED PER PROJECT SPECIFICATIONS.

GENERAL

KEY NOTES

Earson
Engineering, Inc.
3824 Labore Road
White Bear Lake, MN 55110
651.441.9120 () 651.481.9201
www.lasonerg/r.com

ELEMENT
DESIGN-BUILD
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ST. PAUL, MN 35108

PRELIMINARY NOT FOR CONSTRUCTION

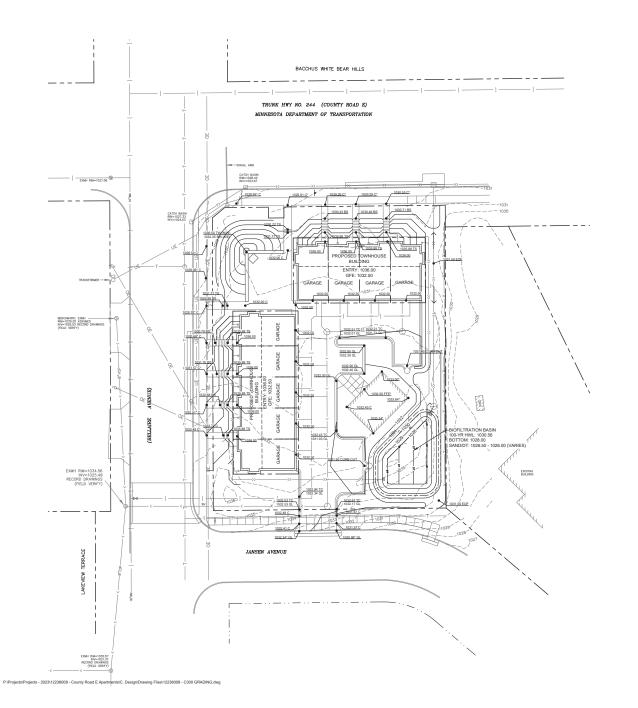
WILDWOOD ROWHOMES 2502 CO RD E EAST WHITE BEAR LAKE, MN 55110

I hereby certify that this plan, specifications or report was prepan by me or under my direct supervisic and that I am a duly licensed Professional Engineer under the law of the state of Minnesota.

Drawn By: TJR
Checked By: MJW
Issue Date: 06.20.23 Sheet Title:

PAVING PLAN





SYMBOL LEGEND

950 — 949 —

PROPOSED CONTOURS - MAJOR INTERVAL PROPOSED CONTOURS - MINOR INTERVAL GRADE BREAK LINE

RIP-RAP / ROCK CONST. ENTRANCE



GRADING NOTES

- All elevations with an asterisk (*) shall be field verified. If elevations vary significantly, notify the Engineer for further instructions.

ELEMENT DESIGN-BUILD 1110 RAYMOND AVENUE, UNIT 3 ST. PAUL, MN 35108 PRELIMINARY NOT FOR CONSTRUCTION

WILDWOOD ROWHOMES 2502 CO RD E EAST WHITE BEAR LAKE, MN 55110

Engineering, Inc. 3824 Labore Road Winte Bear Lake, MN 85110 651 481 9220 () 651481 9221 www.larsonengr.com

specifications or report was prepare by me or under my direct supervisio and that I am a duly licensed Professional Engineer under the law of the state of Minnesota.

Drawn By: TJR Checked By: MJW

ssue Date: 06.20.23 Sheet Title:

GRADING PLAN

EXISTING CONTOURS 2.0% GRADE SLOPE SILT FENCE

INLET PROTECTION



CONCRETE WASHOUT STATION



SPOT ABBREVIATIONS:
TC - TOP OF CURB
GL - GUTTER LINE
GO - GUTTER OUT
B - BITUMINOUS
C - CONCRETE
EO - EMERGENCY OVERFLOW
TW - TOP OF WALL

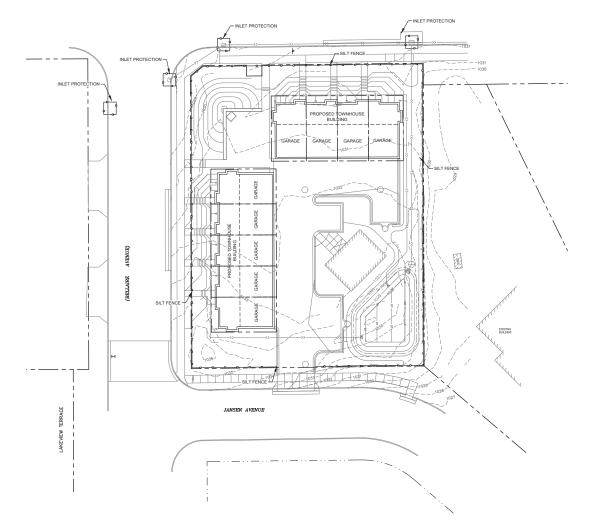
BW - BOTTOM OF WALL (F/G) (*) - EXISTING TO BE VERIFIED

- 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.
- 3. Grades shown in paved areas represent finish elevation.
- 4. All disturbed areas to receive X" of good quality topsoil and seed.
- All construction shall be performed in accordance with state and local standard specifications for construction.

SYMBOL LEGEND SILT FENCE

RIP-RAP / ROCK CONST. ENTRANCE (TO BE FIELD-LOCATED BY CONTRACTOR) INLET PROTECTION

TRUNK HWY NO. 244 (COUNTY ROAD E) MINNESOTA DEPARTMENT OF TRANSPORTATION



EROSION CONTROL NOTES

- Owner and Contractor shall obtain MPCA-NPDES permit. Contractor shall be responsible for all fees pertaining to this permit. The SWPPP shall be kept onsite at all times.
- 3. Erosion control measures shown on the erosion control plan are the absolute minimum. The
- The toe of the silt fence shall be trenched in a minimum of 6°. The trench backfill shall be compacted with a vibratory plate compactor.
- All grading operations shall be conducted in a manner to minimize the potential for site erosion.
 Sediment control practices must be established on all down gradient perimeters before any up gradient land disturbing activities begin
- 8. The normal wetted perimeter of any temporary or permanent drainage dilch 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 manifer portion of any temporary or premarent diffuse or swales must be complete within 14 days after connecting to a surface water and construction in that portion of the dish has beingonary or permanently desired.
- 9. Pipe outlets must be provided with energy dissipation within 24 hours of connection to surface
- All riprap shall be installed with a filter material or soil separation fabric and comply with the Minnesota Department of Transportation Standard Specifications.
- 11. All storm sewers discharging into wetlands or water bodies shall outlet at or below the normal water level of the respective wetland or water body at an elevation where the downstream slope is 1 percent or flatter. The normal water level shall be the invert elevation of the outlet of the wetland or water body.
- 12. All storm sewer catch basins not needed for site drainage during construction shall be covered to prevent runoff from entering the storm sewer system. Catch basins necessary for site drainage during construction shall be provided with inlet protection.
- Inspect the construction site once every seven days during active construction and within 24 hours after a rainfall event greater than 0.5 inches in 24 hours. All inspections shall be recorded in the SWPPP.
- 15. All slit fences must be repaired, replaced, or supplemented when they become nonfunctional or the sediment reaches 1/3 of the height of the fence. These repairs must be made within 24 hours of discovery, or a soon as field conditions allow access. All repairs shall be recorded in the SWPPP.
- 17. All soils tracked onto pavement shall be removed daily.
- All infiltration areas must be inspected to ensure that no sediment from ongoing construction activity is reaching the infiltration area and these areas are protected from compaction due to construction equipment driving across the infiltration area.
- 20. Collected sediment, asphalt and concrete millings, floating debris, paper, plastic, fabric
- 21. Oil, gascline, paint and any hazardous substances must be properly stored, including secondary containment, to prevent spills, leaks or other discharge. Restricted access to storage areas must be provided to prevent vandishms. Storage and disposal of hazardous waste must be in compliance with MPCA regulations.
- 23. All liquid and solid wastes generated by concrete washout operations must be contained in a teak-proof containment facility or impermeable liner. A compacted day finer that does not allow washout liquids to enter ground washe in considered an impermeable liner. The liquid and solid wastes must not confact the ground, and there must not be unoff from the concrete washout with the liquid contained to the confidence of properly and in compliance with MPCA regulations. A digit must be included adjacent to each washout facility to inform concrete equipment operations to utilize the proper facilities.
- Upon completion of the project and stabilization of all graded areas, all temporary erosion control facilities (slit fences, hay bales, etc.) shall be removed from the site.
- 25. All permanent sedimentation basins must be restored to their design condition immediately



- Install temporary erosion control measures (inlet protection, silt fence, and rock construction entrances) prior to beginning any excavation or demolition work at the site.
- contract of the measures around in the reason contract pain are use absolute institution. The contract of the contract paint install temporary earth dikes, sediment traps or basins, additional silitation fencing, and/or disk the soil parallel to the contours as deemed necessary to further control erosion. All changes shall be recorded in the SWPPP.
- All construction site entrances shall be surfaced with crushed rock across the entire width of the entrance and from the entrance to a point 50' into the construction zone.
- 7. 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 (e.g., clean aggragate stooplies, demotions correct stooples, sand subsidiate) and the constructed base components of roads, parking lots and similar surfaces are exempt from this requirement.

- 13. In areas where concentrated flows occur (such as swales and areas in front of storm catch basins and intakes) the erosion control facilities shall be backed by stabilization structure to protect those facilities from the concentrated flows.

- 16. If sediment escapes the construction site, off-site accumulations of sediment must be removed in a manner and at a frequency sufficient to minimize off-site impacts.

- 19. Temporary soil stockpiles must have silt fence or other effective sediment controls, and cannot be placed in surface waters, including stormwater conveyances such as curb and gutter systems, or condulis and ditches unless there is a bypass in place for the stormwater.
- construction and demolition debris and other wastes must be disposed of properly and must comply with MPCA disposal requirements.
- External washing of trucks and other construction vehicles must be limited to a defined area of the site. Runoff must be contained and waste properly disposed of. No engine degreasing is allowed onsite.
- following stabilization of the site.
- 26. Contractor shall submit Notice of Termination for MPCA-NPDES permit within 30 days after Final Stabilization.



1026 551 Engineering, I Stat Labore Road White Bear Lake, MN 55 11.481.9120 () 661.48 www.larsonengr.com

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ESIGN-BUILD RAYMOND AVENUE, UNIT 3 ST. PAUL, MN 55108

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CONSTRUCT

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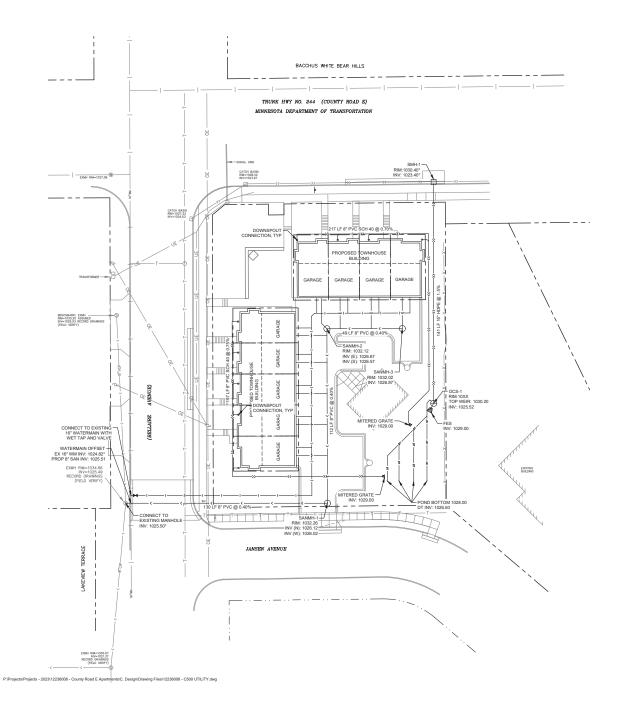
DESIGN.

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pecifications or report was prepar y me or under my direct supervisi nd that I am a duly licensed rofessional Engineer under the la f the state of Minnesota.

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Sheet Title **EROSION CONTROL** PLAN



SYMBOL LEGEND

LIGHT POLE

○ STORM MANHOLE - ctv -____ OE __ OE ----() CATCH BASIN _____UE _____UE ____ CURB INLET — F0 — ___ GAS ____ GAS ____ GAS ___ ⚠ FLARED END O SANITARY MANHOLE O HYDRANT ■ GATE VALVE & BOX

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

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ST. PAUL, MN 55108

- It is the responsibility of the contractor to perform or coordinate all necessary utility connections and relocations from existing utility locations to the proposed building, as well as to all onsite amenities.
 These connections include but are not limited to water, sanitary sewer, cable TV, telephone, gas,
- All service connections shall be performed in accordance with state and local standard specifications for construction. Utility connections (sanitary sewer, watermain, and stormay require a permit from the City.
- Storm sewer requires testing in accordance with Minnesota plumbing code 4714.1109 where located within 10 feet of waterlines or the building.

- 11. See Project Specifications for bedding requirements.
- 12. Pressure test and disinfect all new watermains in accordance with state and local requirements.

UTILITY NOTES

- The contractor shall notify all appropriate engineering departments and utility companies 72 hours
 prior to construction. All necessary precautions shall be made to avoid damage to existing utilities.
- HDPE storm sewer piping shall meet ASTM F2306 and fittings shall meet ASTM D3212 joint pressure test. Installation shall meet ASTM C2321.
- 7. All RCP pipe shown on the plans shall be MN/DOT class 3.
- Maintain a minimum of 7 ½ of cover over all water lines and sanitary sewer lines. Where 7 ½ of cover is not provided, install 2" rigid polysylvene insulation (MNDOT 3760) with a thermal resistance of altestS and a converselves strength of lesset S pals. Insulation shall be 8 wide, centered over pipe with 6" sand cushion between pipe and insulation. Where depth is less than 52 values 4" of Insulation.

 9. Install water lines 12" above sewers. Where the sewer is less than 12" below the water line (or
- 10. All watermain piping shall be class 52 ductile iron pipe unless noted otherwise

- 13. Sanitary sever joing shall be PVC. SDR-35 for depths less than 12P, PVC SDR-36 for depths between 12 and 25, and class SDL. Plx depths of 25 or more.
 14. A shruture adjustment shall include removing and sahaging the aciding casting assembly, removing selding concrete rings be to precast section. Install new rings are daily adjustment of proposed grades, cleaning casting flange by mechanical means to insure a sound surface and install an extrained chimney seel firm or esting to precast section. Chimney seels shall be Inf-Shield Uni-Bend or an approved equal.

WILDWOOD ROWHOMES 2502 CO RD E EAST WHITE BEARLAKE, MN 55110 FOR NOT

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hereby certify that this plan, specifications or report was p specifications or report was prepare by me or under my direct supervisio and that I am a duly licensed Professional Engineer under the law of the state of Minnesota.

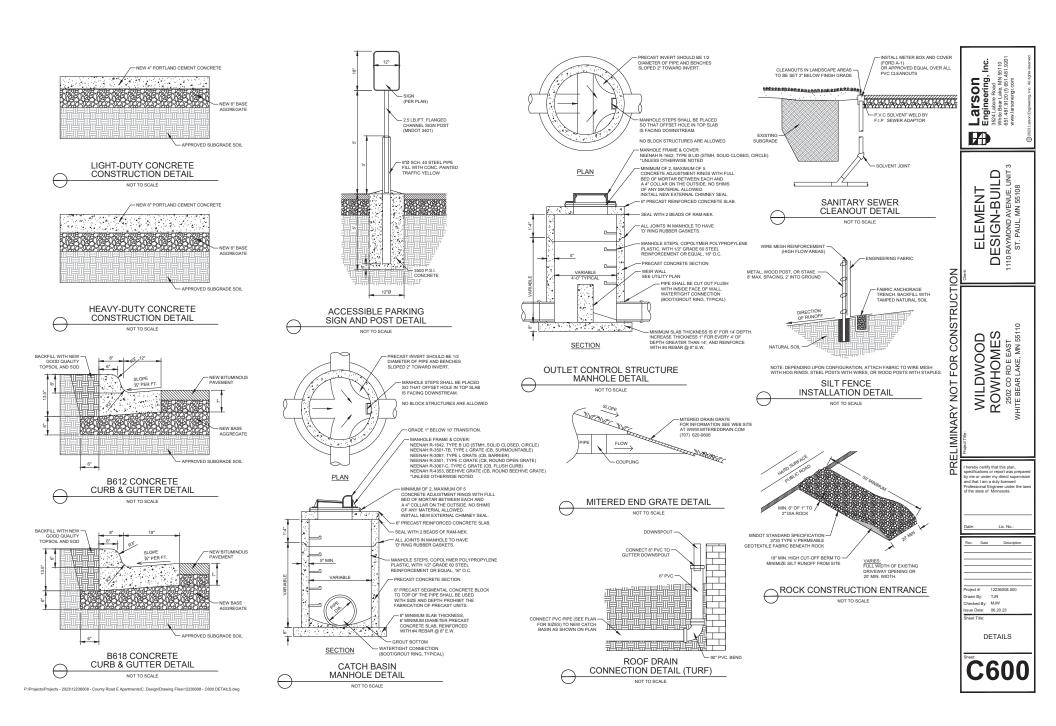
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Sheet Title:

UTILITY PLAN

C500

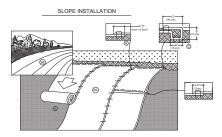




RAIN GUARDAIN WITH RIP-RAP DETAIL

NOTE: 500X MIRAFI FABRIC OR EQUAL

NOT TO SCALE



- PREPARE SOL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.

 NOTE: WHEN SING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- NOTE WHIRE USING CELL-ORED D NOT SEED PREPARED AREA. CELL-ORED MATE HE RISTALED WITH PAPER RES CONZERONAL THE TOP OF HE GOVE IN ADMOSTRATE THE RISTALED WITH SERVICE OF THE RISTALED WITH PAPER RES CONZERONAL THE TOP OF HE GOVERNMENT OF THE RISTALED WITH SERVICE OF THE RISTA
- . THE EDGES OF PARALLEL RECP's MUST BE STAPLED WITH APPROXIMATELY 2" 5" (5 CM 12.5 CM) OVERLAP DEPENDING ON RECP's TYPE.
- NOTE: "IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.

NORTH AMERICAN GREEN

Top Net Polypropylene 1.5 lbs/1,000 ft2 (0.73 kg/100 m2) ap Straw Fiber

Category 4 Erosion Control Blanket: North American Green S150 erosion control blanket or approved equal.

Bottom Net Polypropylene 1.5 lbs/1,000 ft2 (0.73 kg/100 m2) approx. wt.

Staples/Anchors: The type of anchors used to secure the blanket to the ground shall be Steel wire11 Gauge 1" wide x 8" long.

EROSION CONTROL BLANKET NOT TO SCALE



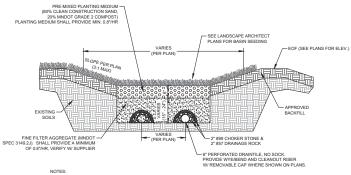
FILTER AREA	5.65 FT ²
OVERFLOW AREA	0.42 FT ²
MAXIMUM OVERFLOW RATE (@ 7" HEAD)	1.99 CFS
MAXIMUM OVERFLOW RATE (@ 13" HEAD)	2.79 CFS
BASKET WEIGHT (EMPTY)	I LB
BASKET WEIGHT (FULL-APPROX.)	45 LBS

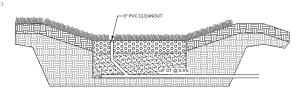
- 2 BASKETS WITH 400 MICRON FILTER BAGS. TO BE CHECKED PERIODICALLY AND CLEANED OUT AFTER EACH RAIN EVENT 400 MICRON FILTER BAG IN EACH BASKET FITS NEENAH 1642 AND 1733 FRAMES OR EQUAL

> **INFRASAFE INLET** PROTECTION DEVICE (OR EQUAL)

NOT TO SCALE

PROFILE





NOTES:

1. SOILS WITHIN FILTRATION AREAS SHALL BE PROTECTED FROM COMPACTION DUE TO
CONSTRUCTION TRAFFIC. AREAS SHALL BE STAKED AND MARKED OFF, WITH ONLY LOW IMPACT
EQUIPMENT (TRACKED OR SIMILAR) ALLOWED.

FILTRATION BASIN **CROSS SECTION** NOT TO SCALE

PRELIMINARY NOT FOR CONSTRUCTION

WILDWOOD ROWHOMES 2502 CO RD E EAST WHITE BEARLAKE, MN 55110

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DESIGN-BUILD
1110 RAYMOND AVENUE, UNIT 3
ST. PAUL, MN 55108

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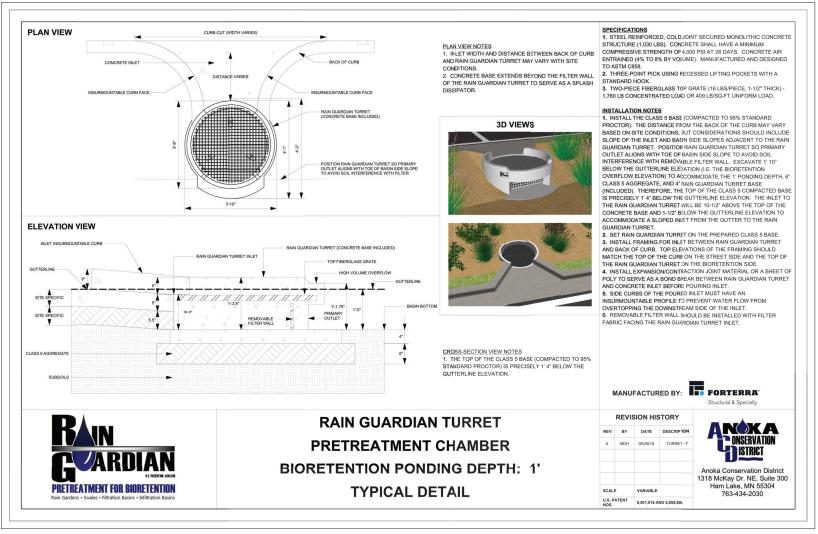
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Sheet Title:

DETAILS

C60



RAIN GUARDIAN TURRET DETAIL

NOT TO SCALE

Checked By: MJW Issue Date: 06.20.23 Sheet Title:

rawn Bv: TJR

DETAILS

Engineering, In. 524 Labore Road Write Bear Lake, MN 55111 S1481.9120 (f) 651481.9 ww.larsonengr.com

DESIGN-BUILD 1110 RAYMOND AVENUE, UNIT 3 ST. PAUL, MN 55108

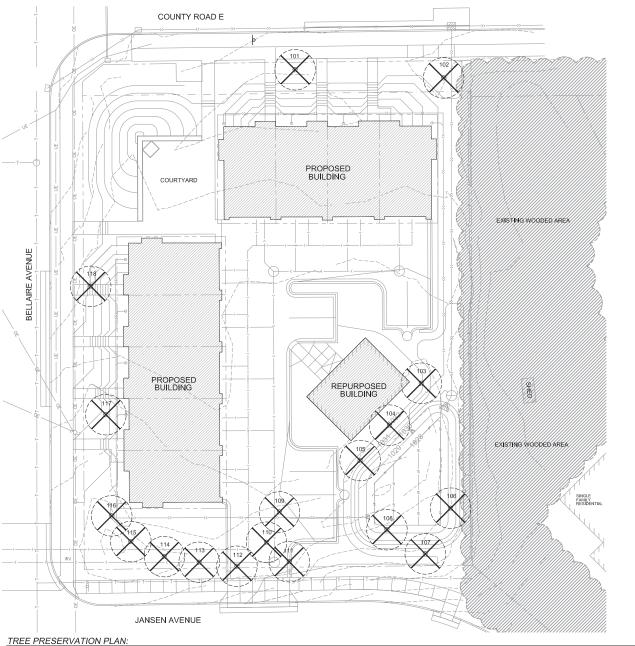
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pecifications or report was prepa y me or under my direct supervis nd that I am a duly licensed rofessional Engineer under the la f the state of Minnesota.

EMENT.

PRELIMINARY NOT FOR CONSTRUCTION

C602



Legend:



Existing Tree to be Removed



Municipal Tree Mitigation Requirements:	
Total Significant Tree Inches On-Site (B):	230
Total Premium Inches Removed (A1): Total Secondary Inches Removed (A2):	230 0
Total Premium Replacement Inches Required (D)*: Total Secondary Replacement Inches Required (D)**:	306 0
Total Replacement Inches Required:	306
Non-Significant Inches to Remain Credit:	0
Blvd Tree Credit***:	0

Total Replacement Inches Shown: New Overstory Trees Proposed: 14 New Ornamental Trees Proposed: 10 Remaining Tree Inches Owed: (230/230) x 1.33 x 230 = 306 (0/230) x .266 x 0 = 0

"(A/B) N ← X ∧ Z = D

Al. Total caligne inches of significant premium trees lost as a result of land alteration A2 = Total caligne inches of significant secondary trees (not as a result of land alteration A2 = Total caligne inches of significant secondary trees (land C1 = Total caligness closed). The explanation of C2 = Total caligness closed secondary tree (260)

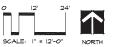
D = Replacement Tess (number of caligness inches).

***Boulevard Tree Credit: Trees in the grassy area within the ROW next to the street may be counted towards the preservation calculation at a rate of half. 359 Blvd inches / 2 = 179.5 inch credits

Note: Replacement inches that cannot be planted on site may be paid into the Arbor Day planting fund at the rate of \$100 per caliper inches the properties of the properties

oint 🗐	Type 💌	Inches *	Significant?	Classification *	Remove?
101	ELM	18	Y	Premium	Υ
102	ELM	18	Y	Premium	Y
103	ELM	12	Υ	Premium	Υ
104	PINE	10	Y	Premium	Υ
105	PINE	10	Y	Premium	Υ
106	PINE	10	Υ	Premium	Υ
107	PINE	10	Υ	Premium	Υ
108	PINE	10	Y	Premium	Υ
109	PINE	12	Υ	Premium	Y
110	PINE	8	Y	Premium	Υ
111	OAK	18	Y	Premium	Υ
112	PINE	10	Υ	Premium	Υ
113	OAK	12	Υ	Premium	Υ
114	OAK	28	Y	Premium	Υ
115	PINE	10	Υ	Premium	Y
116	PINE	10	Υ	Premium	Y
117	ELM	12	Y	Premium	Υ
118	ELM	12	Y	Premium	Υ

Summary	Inches
Total Significant Tree Inches On-Site	230
Total Premium Tree Inches Removed	230
Total Secondary Tree Inches Removed	(
Total Premium Replacement Inches	305.90
Total Secondary Replacement Inches	0.00
Total Replacement Inches	305.90
Total Non-Significant Inches to Remain as credit	(
Total Bldv Inches	
Total Inch Credits from Blvd Trees	0.0
Total Replacement Inches Owed	305 9



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ELEMENT
DESIGN-BUILD
1110 RAYMOND AVENUE, UNIT 3
ST. PAUL, MN 55108

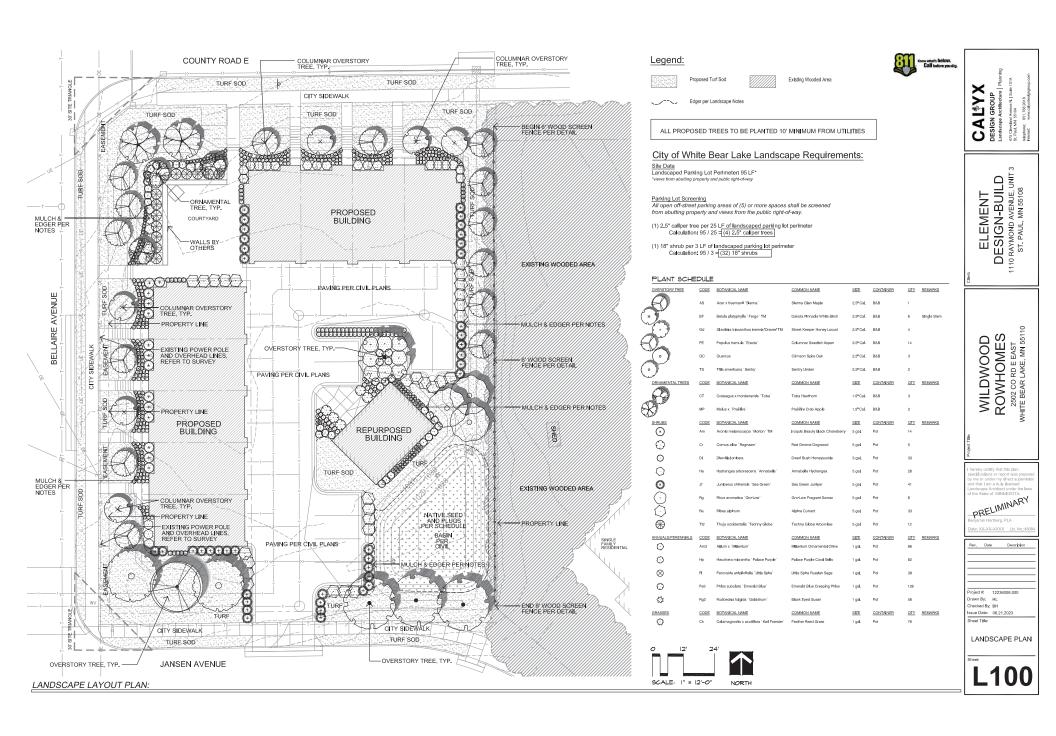
WILDWOOD ROWHOMES 2502 CO RD E EAST WHITE BEAR LAKE, MN 55110

PRELIMINARY

Rev. Date Description

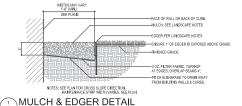
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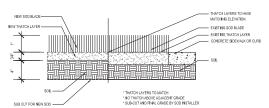
TREE PRESERVATION PLAN



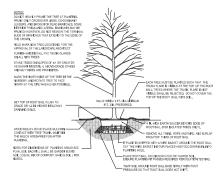
Landscape Notes and Requirements:

- Tree saucer for individual trees outside of a plant bed to be four inches (4") depth natural Western Red Cedar mulch for trees outside of a
 plant bed, Install per tree planning detail. Do not place mulch against tree trunk. Remove wire and burlap from top third of root ball before final soil
 back-IIII and mulch.
- 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. All deciduous trees are measured at 8/f from thished grade to betermine tree dameter (DBH). All conflictous trees are measured from thished grade to the top of the central leader. If no central leader is present on conflierous trees, that plant is rejected and must be replaced lumediately.
- 4. Plan takes precedence over plant schedule if discrepancies in quantities exist.
- 5. All proposed plants shall be located and staked as shown.
- Adjustment In location of proposed plant material may be needed in fleid. Should an adjustment be required, the client will provide fleid 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.
- All plant materials shall be fertilized upon installation as specifie
- 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, duringer or any other title condition than right regardlers distributed by the soil soil condition than right regardlers distributed by the soil soil condition than right regardlers distributed by 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 plant material for the duration of the warranty period. Landscape contractor is responsible for coordinating lawn mowing hand-off with the Owner after the first mowing. Any acts of vandation 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 weed control, plant pruning, fertilization and disease/pest control beyond the first year of maintenance. See Note #22.
- 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 20% de-back damage shall be replaced at no additional cost to the owner. The contractor shall also provide adequate tree wapp and destricted protection measures for the plantings during the warranty period.
- 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: The landscape contractor shall furnish an Irrigation Layout Plan for head-to-head coverage of all tree and furf planting areas. Use commercial grade Irrigation equipment and provide cut-sheets and provide (3) copies of the proposed layout plan to the Chill Engineer for review and approval prior to installation. Coordinate Irrigation connection point, controller, back-low and valve locations with the architect and general contractor. Irrigation contractor to verify if a deduct meter is required and include in bld. Include (1) fall shut-down and (1) spring start-up in bld.
- 18. All edger shall be professional grade black steel edger, 1/8" thickness. Anchor every 18" on-center (minimum). Submit sample.
- 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. Rock mulch areas shall be $\frac{3}{4}$ Inch dia. local clean dark trap rock over weed mat. Install per detail. Submit mulch sample for approval.
- 21. All planting and sodded areas shall be prepared prior to installation activities with a hartey power box rake or equal to provide a firm planting bed free of stones, sticks, construction debris, etc.
- 22. Turf Sodding 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. Turf Sod installation to Include one year of maintenance in the bid price, which includes refilitization and weed control 3 times c.[2] applications the lifet sign rowing asson and (1) applications the following spring, Also, beload mechanical plag seration, which is to occur (1) time the spring following turf sod installation, including snow stronge areas. An acceptable stand of turf is lash, full, and weed-free. See specifications for additional information and confusion monohy regulations.
- 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 slit curtain fending 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 the grading, landscaped area conditions, staging areas, Irrigation connection to building, etc.
- 28. See Site and CMI plans for additional information regarding the project, including infiltration area soils and sub-surface drainage requirements and performance.
- 29. Topsoll Requirements: All graded areas of the site that are designated on the plan set for furf sod shall have no less than 6" of imported top soll, areas designated for shrubs, trees, and perennials shall have no less than 12" of imported top soil, meeting MinDOT classifications for planting soil or trees, shrubs, and furf. Slope away from building.
- 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 must. Planting areas not capable of meeting this requirement shall have 4" diameter 4.4" eight holes augured every 30" 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 size. Additionally, the landscape contractor shall provide nursery stock traceability, proving none of the materials provided contain or are genetic strains of the ned
- 32. Landscape contractor shall apply granular Preen pre-emergent herbloide in all wood mulch areas immediately following installation and again the following spring.

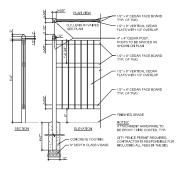




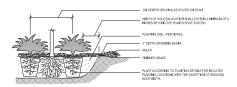
2 NEW SOD TO EXISTING SOD DETAIL
L2001 NOTTO SCALE



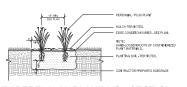
3 DECIDUOUS TREE PLANTING - SECTION
LOOD NOTTO SCALE







TYP. SHRUB PLANTING - SECTION



6 TYP PERENNIAL PLANTING - SECTION

10 NOT TO SCALE



ELEMENT
DESIGN-BUILD
1110 RAYMOND AVENUE, UNIT ST. PAUL, MN 55108

WILDWOOD ROWHOMES 2502 CO RD E EAST WHITE BEAR LAKE, MN 55110

eby certify that this plan, iffications or report was p

Landscape Architect under the law of the State of MINNESOTA.

PRELIMINARY

Benjamin Hartberg, PLA

Rev. Date Description

Project # 12236006,000
Drawn By: HL
Chacked By: BH
Issue Date: 06.21.2023
Sheet Tide:

LANDSCAPE DETAILS

L200

NATIVE SEED MIX:

Seed in Basin areas: (unless otherwise noted on civil plans), shall be:

MnDOT #33-261 seed misture, drilled into the premised planting medium (per civil engineer's detail))

ayer at 80 baye arears. Submits seed mis for approval. Grading and Enoslan Control per Civil Plans and Specifications. Include live plugs per the additional schedule below.

Common Name	Scientific Name	Rate (lb/ac)	Rate (kg/ha)	% of Mix (by weight)	Seeds/ sq ft	
big bluestem	Andropogon gerardii	2.00	2.24	5.72%	7.35	
fringed brome	Bromus ciliatus	2.00	2.24	5,73%	8,10	
Virginia wild rye	Elymus virginicus	1.50	1.68	4.28%	2.31	
fowl bluegrass	Poa palustris	1,06	1,19	3.03%	50.70	
slender wheatgrass	Elymus trachycaulus	1.00	1.12	2.85%	2.53	
switchgrass	Panicum virgatum	0.38	0.43	1.07%	1.93	
prairie cordgrass	Spartina pectinata	0.38	0.43	1.07%	0.91	
Indian grass	Sorghastrum nutans	0.12	0.13	0,36%	0.55	
bluejoint	Calamagrostis canadensis	0.06	0.07	0.18%	6.40	
	Grasses Subtotal	8.50	9.53	24.29%	80.78	
awl-fruited sedge	Carex stipata	0.25	0.28	0.71%	3.10	
dark green bulrush	Scirpus atrovirens	0.19	0.21	0.54%	31.70	
woolgrass	Scirpus cyperinus	0.06	0.07	0.18%	39.00	
golden alexanders	Sedges & Rushes Subtotal Zizia aurea	0.50 0.20	0.56 0.22	1.43% 0.56%	73.80 0.79	
autumn sneezeweed	Helenium autumnale	0.13	0.15	0.36%	5.97	
marsh milkweed	Asclepias incarnata	0.11	0.12	0.32%	0.20	
leafy beggarticks	Bidens frondosa	0.11	0.12	0.31%	0.20	
Canada anemone	Anemone canadensis	0.07	0.08	0.19%	0.20	
obedient plant	Physostegia virginiana	0.07	0.08	0.21%	0.30	
tall coneflower	Rudbeckia laciniata	0.07	0.08	0.21%	0.37	
New England aster	Symphyotrichum novae-angliae	0.07	0.08	0.19%	1.56	
flat-topped aster	Doellingeria umbellata	0.06	0.07	0.17%	1,50	
spotted Joe pye weed	Eutrochlum maculatum	0.06	0.07	0.18%	2.15	
blue vervain	Verbena hastata	0.05	0.06	0.15%	1.85	
	Forbs Subtotal	1.00	1.12	2.85%	15.13	
Oats	Avena sativa	25.00	28.02	71.43%	11.14	
	Cover Crop Subtotal	25.00	28.02	71.43%	11.14	
	Total	35.00	39.23	100.00%	180.85	
Purpose:	Stormwater pond edges, temporarily flooded dry ponds, and temporarily flooded ditch bottoms.					

Basin Area: Live Plug Schedule:

Plug Spacing:	Scientific Name	Common Name	Size	Root
24" On-Coptee	Bolhoschoszus fluviatius	River Bullrush	FLAT	PLUG
(Provide a readers and equal release of the plants level)	Calamagnostis ogradensis	Blue Jojet Grass	FLAT	PLUG
	Carex pellits	Wooley Sedge	FLAT	PLUG
	Carexbelti	Bebb's Sedge	FLAT	PLUG
	Caproc vulpinoidea	Fox Sedge	FLAT	PLUG
	Сарих сориева.	Bottle Brash Sedge	FLAT	PLUG
	Carex lacustris	Lake Sedge	FLAT	PLUG
	Cazerx stricts.	Tussock Sedge	FLAT	PLUG
	Juncus effusus	Common Rush	PLAT	PLUG
	Sciepus atrovinus	Grozzi Bulrush	FLAT	PLUG
	Scirpus cyperinus	Woolgass	PLAT	PLUG
	Spartina pertinata	Cord Grass	FLAT	PLUG

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

NATIVE SEED REQUIRED MAINTENANCE - 3 YRS:

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

Establishment (spring seeding);

Prepare site - Late April Seed - May 1 - June 1

- Mow (6-8 inches) every 30 days after planting until September 30.
 Weed Control mowing should help control annual weeds. Spot spray

- Estab#shment (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

Weed Control - mowing should keep annual weeds down. Spot spray

- Evaluation:

 Cover crop growing within 2 weeks of planting (except domant plantings).

 Seedings spaced 1-6 inches apart in drill rows.

 Native grass seedings may only be 4-6 inches tall.

 If there is a flash of growth from foxtall etc., mow as necessary.

- Year 2
 Maintenance:
 Mont (6-3 inches) one time between June 1 August 15 before weeds
 set send.
 2) Weed Control mowing should keep annual weeds down. Spot spray
- weed control moving should keep annual weeds down. Spot sp thistles, etc.

 3) Some sites may not require much maintenance the second year.

 Evaluation:
- Nuation:

 Cover crop will be gone unless winter wheat was used in a fall planting.

 Grasses forming clumps 1-8 inches apart in drill rows, but still short.

 Some flowers should be blooming (black-eyed Susans, bergamot, etc.).

 If there is a flush of growth from foxtal letc., mow site.

- Year 3

 Mathetenanect
 1) Mow only if necessary
 2) Weed Control Spot spray thisites, etc.
 3) Sites usually do not require much maintenance the third year.

 **A-exten looking like a pratifie tall grasses, flow
- Planting should begin looking like a prairie tall grasses, flowers, etc.

- Long-term
 Maintenance:

 1) Weed Control Spot spray thistles, etc.

 2) Burning GS-5 year rotation) alternate spring and fall if possible.

 3 Haying GS-9 ver rotation) tale summer or early fall. Alternate with burning (may substitute for burning).

 5 Burning to may substitute for burning.

 6 Burning to may see in a row will really 'clean up' rough-botting sites.

NATIVE SEEDING INSTALLATION METHOD:

Drop Seeding Onto Tilled Sites

nethod for seeding on prepared sites such as those on

- a) Site Preparation: The site should be prepared by loosening topsoil to a minimum
- depth of 3 inches.

 Fertillizer Use a fertilizer analysis based on a soil test or a general recommendation is a 10-10-10 (NPK) commercial grade analysis at 200 lbelance. Seed installations Seed should be installed with a 10-9 seeder that will be seeded that will be seeded that will be seeded that will be seeded to the seeded because the seeded of the seeded because the seeded of the seeded because (Billion-type). The drop seeder should be equipped with a cultipacker assembly to ensure seed-type of contact.

 Seeding Retart States are specified in the mixture tabulation for the specified
- mbt.

 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.

 Mulch: Cover soil with a hydromulch consisting of natural wood fiber or paper fiber, water, and M-Bridder 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.

Irrigation Performance Requirements:

- IRRIGATION SYSTEM SHOULD AVERAGE 40(+/-) PSI AT THE BASE OF ALL SPRINKLER HEADS.
 NOTIFY LANDSCAPE ARCHITECT IF AVAILABLE PRESSURE DIFFERS.
- IRRIGATION CONTRACTOR TO PREPARE FULL IRRIGATION LAYOUT PLANS FOR LANDSCAPE ARCHITECT'S REVIEW, LAYOUT WORK AS ACCURATELY AS POSSIBLE. THE CONTRACTOR MAY MAKE MINOR ADJUSTMENTS TO THE LOCATION AND SPACING AS NECESSARY CA REVIEWED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION
- COORDINATE SLEEVING AND IRRIGATION PIPE / HEAD / INTERNAL PLUMBING INSTALLATION WITH
- ALL MATERIALS SHALL BE INSTALLED AS DETALED ON DRAWINGS, (HOWEVER, IF THE CONTRACT DRAWINGS ANDIOR SPECIFICATIONS DO NOT THOROUGHLY DESCRIBE THE METHOD OR TECHNOLUSES 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.)
- CHECK AND VERIFY ALL EXISTING AND PROPOSED SITE CONDITIONS, UTILITIES AND SERVICES PRIOR TO TRENCHING.
- LATERAL PIPING TO BE A MINIMUM OF 12 INCHES DEEP AND MAINLINES A MINIMUM OF 18 INCHES
- ALL MAIN LINE PIPING AND LATERAL PIPE OF 1-1/2" AND LARGER SHALL BE PVC (SDR 26 / CLASS 160). ALL OTHER LATERAL PIPE OF 1-1/4" AND SMALLER MAY BE POLYETHYLENE.
- ALL TEES AND ELBOWS SHALL BE PVC (160 PSI). INCLUDE THRUST BLOCKING AT TEE AND
- 9. ALL SPRINKLERS SHALL BE AS NOTED ON DETAIL & SPECIFICATION.
- ADJUST HEADS FOR GRADE, AS NECESSARY, AFTER TURF GRASS HAS BEEN ESTABLISHED AND ALL SETTLEMENT AT HEADS HAS OCCURRED.
- ALL AUTOMATIC CONTROLLERS, RISERS, BACKFLOW PREVENTERS AND HOSE BIBS SHALL BE SET PLUM. SPRINKER HEAD RISERS, QUICK COUPLER VALVES AND ALL VALVES WITH STEMS SHALL BE SET PERPENDICULAR TO FINISHED GRADE.
- 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.
- 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.
- CONDUCT PERFORMANCE TEST IN THE PRESENCE OF OWNER AND LANDSCAPE ARCHITECT FOLLOWING COMPLETION OF SYSTEM INSTALLATION.
- CONDUCT AND DEMONSTRATE WINTERIZATION AND SPRING START-UP PROCESS TO OWNER IN THE FALL OF COMPLETION.
- LANDSCAPE ARCHITECT SHALL BE NOTIFIED TO VERIFY TRENCH DEPTHS BEFORE BACKFILLING.
- IRRIGATION CONTRACTOR TO COORDINATE MECHANICAL ROOM WATER CONNECTION POINT WITH MECHANICAL ENGINEER AND PLUMBING CONTRACTOR.
- 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 PRIGATION SYSTEM.
- LANDSCAPE CONTRACTOR TO ADJUST HEADS IN THE FIELD TO ENSURE WATER DOES NOT SPRAY THE BUILDING FACE OR PAVED AREAS,
- COORDINATE LOCATION OF ROOFTOP-MOUNTED ATMOSPHERIC MOISTURE (RAIN) SENSOR WITH
- COORDINATE LOCATION OF SLEEVING UNDER PAVED AREAS WITH GENERAL CONTRACTOR, EARTHWORK, AND PAVING SUB-CONTRACTORS.
- SUBMIT LAYOUT PLAN AND PRODUCT DATA TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- IRRIGATION BID SHALL INCLUDE (1) FALL SHUT-DOWN AND (1) SPRING START-UP.
- THIS PROJECT WILL USE HUNTER COMMERCIAL IRRIGATION PRODUCTS.
- PROVIDE THE OWNER WITH MANUFACTURER'S INSTRUCTION MANUAL FOR CONTROLLER, POST IRRIGATION ZONE LAYOUT MAP AT 8"x10" NEXT TO THE CONTROLLER FOR REFERENCE.
- PROVIDE THE OWNER WITH AN AS-BUILT PLAN (PAPER AND CAD DWG) UPON COMPLETION OF INSTALLATION.

CALYX
DESIGN GROUP
Landscape Architecture | Pis

ELEMENT DESIGN-BUILD 0 RAYMOND AVENUE, UNIT 3 ST. PAUL, MN 55108 ⊒ ë

WILDWOOD ROWHOMES 2502 CO RD E EAST WHITE BEAR LAKE, MN 55110

PRELIMINARY late: XX-XX-XXXX Ltc. No.:480

Rev. Date Description

roject# 12236008.000 Checked By: BH

LANDSCAPE DETAILS