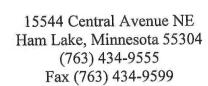
CITY OF HAM LAKE



CITY OF HAM LAKE PLANNING COMMISSION AGENDA MONDAY, APRIL 26, 2021

CALL TO ORDER: 6:00 p.m.

PLEDGE OF ALLEGIANCE

APPROVAL OF MINUTES: April 12, 2021

PUBLIC HEARINGS:

6:01 p.m. Jeff Stalberger, Crosstown Development, LLC, requesting Preliminary Plat approval and rezoning for Crosstown Rolling Acres 3rd Addition (49 Single Family Residential lots) in Section 6.

6:01 p.m. Jim Malvin and Tim Lang, Timber Valley Development, requesting Preliminary Plat approval and rezoning for Evergreen Estates (36 Single Family Residential lots) in Section 21.

NEW BUSINESS:

1. Classic Construction, Inc. requesting Commercial Site Plan approval to construct a 10,572 square foot daycare center at 13644 Radisson Road NE (PIN# 33-32-23-31-0006, Lot 9, Block 2 of Bunker Meadows).

COMMISSION BUSINESS:

1. City Council Update

2. Discussion of Article 9-220 of the City Code

CITY OF HAM LAKE PLANNING COMMISSION MINUTES MONDAY, APRIL 12, 2021

The Ham Lake Planning Commission met for its regular meeting on Monday, April 12, 2021 in the Council Chambers at Ham Lake City Hall located at 15544 Central Avenue NE in Ham Lake, Minnesota.

MEMBERS PRESENT:

Commissioners Brian Pogalz, Kyle Lejonvarn, Erin Dixson,

Dave Ringler, Scott Heaton, Jonathan Fisher, and Jeff

Entsminger

MEMBERS ABSENT:

None

OTHERS PRESENT:

City Engineer, Tom Collins, Building and Zoning Official, Mark

Jones and Building and Zoning Clerk, Jennifer Bohr

CALL TO ORDER:

Chair Pogalz called the meeting to order at 6:00 p.m.

PLEDGE OF ALLEGIANCE:

The pledge of allegiance was recited by all in attendance.

APPROVAL OF MINUTES:

Motion by Lejonvarn, seconded by Ringler, to approve the minutes of the March 22, 2021 Planning Commission meeting as written. All in favor, motion carried.

PUBLIC HEARINGS:

Alexander Hattstrom requesting a Special Home Occupation Permit to operate Tactical Finishes, LLC at 14350 Ural Street NE

Alexander Hattstrom was present. Mr. Hattstrom stated he will be operating a coating, painting and refinishing business in a detached accessory building on his property. Mr. Hattstrom stated he will primarily be using a product called Cerakote, a ceramic based enamel paint, that can be applied to a variety of substrates including metals, polymers, glass, ceramics and wood. Mr. Hattstrom stated his focus is to coat firearms, sporting goods and other consumer products. Commissioner Lejonvarn completed the inspection, a copy which is on file. Commissioner Lejonvarn stated a hard surface driveway needs to be constructed from the edge of the current driveway to the accessory building and an exhaust system needs to be installed for the paint spray booth. Commissioner Lejonvarn stated Mr. Hattstrom is in the midst of construction; the air compressor was not hooked up so he was not able to determine if the noise generated by the compressor would be audible to neighbors. Commissioner Lejonvarn stated Mr. Hattstrom has applied for a Federal Firearms License but is awaiting its issuance. Commissioner Lejonvarn stated

he informed Mr. Hattstrom that no customer traffic was permitted; Mr. Hattstrom stated he would meet customers at a local business or have items shipped to him by customers. Commissioner Ringler asked if a permit had been obtained for the garage heater; Mr. Hattstrom stated he has applied for a permit for the heater.

Chair Pogalz opened the public hearing at 6:07 p.m. and asked for public comment.

Jerry Anderson, 3723 146th Avenue NE stated he is in support of the business; he has operated a paint shop himself. Mr. Anderson asked how waste from the products used will be disposed of.

Mr. Hattstrom stated he will be using two chemicals, Simple Green, an all-natural, organic, chemical-free cleaner, to degrease products before coating them and Cerakote. Mr. Hattstrom stated Cerakote is like epoxy where it must be applied within an hour of mixing before it hardens. Mr. Hattstrom stated he will be mixing the volume of Cerakote needed for each project; he expects very little waste product. Chair Pogalz asked if it is similar to paint where it can be disposed of in a garbage can after it has dried. Mr. Hattstrom stated Cerakote has properties very similar to paint. Mr. Hattstrom stated he has found he can dispose of any waste generated at the Elk River Hazardous Waste Disposal site. Commissioner Entsminger asked if the coating was sprayed on in a paint booth and air dried or dried via an electronic process. Mr. Hattstrom stated there are two types of Cerakote, the C-series is air cooled and the H-series is heated to approximately 300 degrees to cure the coating; he will be using both products.

Chair Pogalz asked for further public comment and with there being none, he closed the public hearing at 6:11 p.m.

Chair Pogalz asked the Commissioners if they had questions or required further discussion on this application; there were no additional questions or comments. Motion by Lejonvarn, seconded by Ringler, to recommend approval of a Special Home Occupation Permit as requested by Alexander Hattstrom to operate Tactical Finishes, LLC at 14350 Ural Street NE, subject to meeting the guidelines for Special Home Occupation Permits per Article 9-350.3, completing the hard surface driveway between the existing driveway and accessory building, installation of a proper exhaust system meeting Minnesota Mechanical Code requirements, obtaining a permit for the garage heater, maintaining Safety Data Sheets (SDS) onsite for chemicals and paint products used, disposing of products used in an environmentally sound manner, no coating or selling of automotive parts or accessories, no discharging of firearms on-site, no on-street parking, generating no noise that is audible to neighboring properties, no outdoor storage, operating hours of 8:00 a.m. to 3:30 p.m. seven days a week, obtaining a Federal Firearms License and providing a copy of the license to the City before assembling or coating any firearms, completion of required actions by June 1, 2021 and meeting all City, State and County requirements. All in favor, motion carried. This item will be placed on the April 19, 2021 City Council Agenda.

Benjamin Cedarberg of Cedar Hill Group, LLC, requesting a Conditional Use Permit to operate Everwood Friends at 4453 Crosstown Boulevard NE

Benjamin Cedarberg was present. Mr. Cedarberg stated he and his wife operate a business which manufactures heirloom quality, maple, wooden children's blocks and sells them online. Mr. Cedarberg stated they create the wooden products, warehouse the finished goods and pack and ship the blocks from the Crosstown Boulevard NE location. Commissioner Dixson completed the inspection, a copy which is on file. Commissioner Dixson stated Mr. Cedarberg is currently using a driveway that goes through the 4425 Crosstown Boulevard NE property; that driveway is going to be vacated so he will then utilize the driveway to the east that provides access to the 4453 Crosstown Boulevard NE property. Commissioner Dixson stated the parking area is gravel. Commissioner Dixson stated she asked Mr. Cedarberg how he intended to dispose of sawdust, shavings and trimmings and Mr. Cedarberg stated the property owner wants to utilize the sawdust on the property so he will be taking the bulk of the waste; any additional waste will be placed in a dumpster for disposal. Commissioner Dixson stated no customers will come to the site as all sales are done online and traffic for shipping and delivery of raw materials occurs a few times per week. Commissioner Lejonvarn asked if the parking area was hard surfaced. Commissioner Dixson stated the surface was gravel. Building and Zoning Official. Mark Jones stated if the business is not open to the public, the Code is silent on the type of surface required for parking. There was some discussion among the Commissioners about the parking surface; it was determined if the City Code does not clearly define parking surface requirements discretion can be used to determine an acceptable surface and if there will be no customers or visitors coming on-site, a gravel parking surface could be considered acceptable.

Chair Pogalz opened the public hearing at 6:19 p.m. and asked for public comment; with there being none, Chair Pogalz closed the public hearing at 6:19 p.m.

Motion by Dixson, seconded by Fisher, to recommend approval of a Conditional Use Permit as requested by Benjamin Cedarberg to operate Everwood Friends at 4453 Crosstown Boulevard NE, subject to meeting the guidelines outlined in Article 9, Section 9-210.32.vii related to generating no noise which would violate the standards for residential uses found in the Minnesota Pollution Control Agency regulations, generating no odors, fumes, vibrations or light beyond the property lines, no on-site retail sales, any construction or building modifications meeting all chapters of the Minnesota State Building Code, no accumulation of sawdust, or wood shaving or trimmings on-site, business hours of 8:00 a.m. to 6:00 p.m. Monday through Saturday, and meeting all City, State and County requirements. All in favor, motion carried. This item will be placed on the April 19, 2021 City Council Agenda.

Anton Vovk requesting a Conditional Use Permit to operate A & A Companies, an auto repair shop, at 13408 Highway 65 NE

Mr. Anton Vovk was present. Mr. Vovk stated he operates an auto repair business providing automotive diagnostics, maintenance and engine, transmission, suspension, brake and body repair. Commissioner Lejonvarn asked if Mr. Vovk planned to do any painting of vehicles. Mr. Vovk stated he would not be painting any vehicles. Commissioner

Entsminger completed the inspection, a copy which is on file. Commissioner Entsminger stated he talked with Mr. Vovk about painting; he understands this is not permitted. Commissioner Entsminger stated he also spoke with Mr. Vovk about the need to keep the road easement along the north side of the building clear due to it being the only access to Jetson Inc. at 13414 Highway 65 NE as well as not parking any damaged cars or cars in need of repair nor storing anything outside of the unit he is working from. Commissioner Ringler stated the memo from Building and Zoning Official Jones stated damaged cars have been parked in spaces on the north side of the building; what action is being taken to address that issue. Commissioner Entsminger stated he spoke with Building and Zoning Official Jones about the parking and storage issues on the north side of the building; Building and Zoning Official Jones is currently doing annual Conditional Use Permit (CUP) inspections at the site and is addressing issues related to outside storage, parking and any other violations he discovers.

Chair Pogalz opened the public hearing at 6:26 p.m. and asked for public comment; with there being none, Chair Pogalz closed the public hearing at 6:26 p.m.

Anthony Revutskiy, property owner at 13408 Highway 65 NE, was present. Chair Pogalz asked Mr. Revutskiy to comment on how well his tenants are complying with the conditions of their CUP's and parking requirements. Mr. Revutskiy stated he has to address some issues from time to time but overall things are better than they used to be. Mr. Revutskiy stated he has talked with the owner of Jetson's Inc. about posting no parking signs along the road easement to help correct the issue of vehicles blocking the roadway.

Chair Pogalz asked the Commissioners if they had questions or required further discussion on this application; there were no additional questions or comments. Motion by Entsminger, seconded by Fisher, to recommend approval of the application by Anton Vovk, requesting a Conditional Use Permit to operate A & A Companies at 13408 Highway 65 NE subject to the following conditions: (1) No motor vehicle sales (2) Allocating a total of thirteen parking spaces; three in front of the suite the business is renting (#109) for employee parking during business hours only and ten in the fenced area as presented on the site plan (3) All parking to be on hard surface in designated areas as shown on the site plan (4) A maximum of three employees (5) No outside storage of liquids, tires, parts, etc. (6) All repairs to be done inside the building (repairs include general auto maintenance and mechanical work such as replacing brakes, headlights and bulbs; all fluids to be contained and disposed of according to County and State requirements (7) No painting at this location (8) Hours of operation to be 9:00 a.m. to 6:00 p.m., Monday through Saturday (9) Security Lighting required (10) Maintain an open fire lane on the north side of the building (11) Meeting all City, State and County requirements. All in favor, motion carried. This item will be placed on the April 19, 2021 City Council Agenda.

William Dwyer requesting a Conditional Use Permit to operate Gunner Insulation at 14665 Buchanan Street NE, Units 1 & 2 Pat Dwyer was present. Mr. Dwyer stated Gunner Insulation is an insulation installation and general contracting company. Mr. Dwyer stated the company is leasing units one and two of the building and they have twenty to twenty-five employees. Commissioner Heaton completed the inspection, a copy which is on file. Commissioner Heaton stated the front parking lot is striped and has designated handicap parking spaces. Commissioner Heaton stated insulation materials, various tools and insulation equipment are stored in the warehouse area; employees come to the building in the morning but then drive company trucks to job sites; the company's fleet of ten trucks are parked outside behind the building. Commissioner Lejonvarn asked if there was lighting in the back of the building. Mr. Dwyer stated there are wall packs in the back. Commissioner Heaton stated there is residential property to the west of the building but does not feel the business activity would be disruptive to the nearby residents.

Chair Pogalz opened the public hearing at 6:39 p.m. and asked for public comment; with there being none, Chair Pogalz closed the public hearing at 6:39 p.m.

Motion by Heaton, seconded by Ringler, to recommend approval of the application by William Dwyer, requesting a Conditional Use Permit to operate Gunner Insulation at 14665 Buchanan Street NE, Units 1 & 2, subject to the following conditions: operating hours of 6:30 a.m. to 7:30 p.m. Monday through Friday with occasional Saturdays, no outside storage of materials, parking per site plan for passenger vehicles in front of the building and company trucks in the back of the building, and meeting all City, State and County requirements. All in favor, motion carried. This item will be placed on the April 19, 2021 City Council Agenda.

Harlan Worsham requesting a Conditional Use Permit to operate Solid Rock Construction at 14665 Buchanan Street NE, Unit 4

Harlan Worsham was present. Mr. Worsham stated Solid Rock Construction specializes in commercial and residential interior and exterior remodeling and new construction; the company has thirteen employees and many subcontractors most of which drive a company vehicle and work off-site at job locations. Commissioner Heaton completed the inspection, a copy which is on file. Commissioner Heaton stated Solid Rock Construction is leasing unit four. Commissioner Heaton stated the usage of the building is similar to that of Gunner Insulation as there are offices at the front of the building and materials, tools and equipment are stored in the warehouse area. Commissioner Lejonvarn asked if the parking lot in the back of the building was striped. Commissioner Heaton stated he didn't believe the parking lot in the back was striped.

Chair Pogalz opened the public hearing at 6:42 p.m. and asked for public comment; with there being none, Chair Pogalz closed the public hearing at 6:43 p.m.

Motion by Heaton, seconded by Fisher, to recommend approval of the application by Harlan Worsham, requesting a Conditional Use Permit to operate Solid Rock Construction at 14665 Buchanan Street NE, Unit 4, subject to the following conditions: operating hours of 7:00 a.m. to 7:00 p.m. Monday through Friday with occasional Saturdays, no outside storage of materials, parking per site plan for passenger vehicles in front of the building and company trucks in the back of the

building, and meeting all City, State and County requirements. All in favor, motion carried. This item will be placed on the April 19, 2021 City Council Agenda.

NEW BUSINESS:

Andrew Berg requesting a Certificate of Occupancy to operate Latitude Studios Co. at 14665 Buchanan Street NE, Unit 3

Andrew Berg was present. Mr. Berg stated he is just starting Latitude Studios Co. Mr. Berg stated he will manufacture backyard office studios, sheds and gazebos (that are fully heated and cooled) by repurposing shipping containers. Mr. Berg stated he will have some floor models for customers to see on-site but will custom manufacture other units. Mr. Berg stated at present he is the only employee but hopes to have up to eight employees in the future. Commissioner Heaton completed the inspection, a copy which is on file. Commissioner Heaton stated Mr. Berg has a great business concept. Motion by Heaton, seconded by Ringler, to recommend approval of the Certificate of Occupancy requested by Andrew Berg to operate Latitude Studios Co. at 14665 Buchanan Street NE, Unit 3, subject to the following conditions: operating hours of 7:00 a.m. to 7:30 p.m. Monday through Saturday, no outside storage, deliveries occurring between the hours of 7:30 a.m. to 7:30 p.m. Monday through Saturday, and meeting all City, State and County requirements. All in favor, motion carried. This item will be placed on the April 19, 2021 City Council Agenda.

Holiday Stationstores LLC requesting Sketch Plan approval for a Minor Plat in Section 5 Jim Goeppner, Real Estate Development Manager and Denny Honsa of Honsa Surveying were present. Mr. Goeppner stated Holiday Stationstores intends to raze the current Holiday store and construct a new store and parking lot which will provide a new, more user-friendly convenience store space, ten gas pumps, a diesel fueling island and car wash. Mr. Goeppner stated the store brand will be Circle K a brand of Alimentation Couche-Tard which acquired Holiday in 2017. Mr. Goeppner provided images of the current site as well as the future site. Mr. Honsa provided an explanation of the sketch plan, including future street construction plans and land that will be dedicated to the City by Holiday for a trail that will run between Soderville Park and Chisholm Street NE. Mr. Honsa stated an additional outlot will be created to allow for future development of four to five residential lots in the southeast portion of the property. Commissioner Lejonvarn asked if the trail would be paved. Engineer Collins stated commercial plats do not have parkland requirements but Holiday has elected to dedicate land for a trail as it is in close proximity to the park which has no concession stand; once the development is platted, discussions and recommendations can be made for trail construction with funds from the Park and Beach fund. Commissioner Heaton asked what type of water treatment system the new store would have. Engineer Collins stated it is going to be a septic system. Chair Pogalz asked Engineer Collins to review his April 7, 2021 memo. Engineer Collins stated the proposed plat is located within the Commercial/Industrial Planned Unit Development Overlay District (CPOD) and future submissions must meet the procedural requirements of Article 9-420. Engineer Collins stated this plat will contain two zoning districts, Commercial Tier 1 (CD-1) and Residential Single Family (R-1) and will follow minor plat procedures. Engineer Collins stated Outlot A on the sketch plan will need to be separated into two outlots, with the westerly outlot being zoned CD-1 and the easterly R-1. Engineer Collins stated that a commercial site plan will be reviewed by the Planning Commission

in the future. Motion by Pogalz, seconded by Fisher, to recommend approval of the Sketch Plan as presented by Holiday Stationstores LLC for a minor plat in Section 5 subject to meeting the recommendations of the City Engineer and meeting all City, State and County requirements. All in favor, motion carried. This item will be placed on the April 19, 2021 City Council Agenda.

COMMISSION BUSINESS:

City Council Update

Commissioner Entsminger attended the April 5, 2021 City Council meeting. Commissioner Lejonvarn will be attending the April 19, 2021 City Council meeting.

ADJOURNMENT:

Motion by Heaton, seconded by Dixson, to adjourn the Planning Commission meeting at 7:07 p.m. All in favor, motion carried.

Jennifer Bohr Building and Zoning Clerk

CITY OF HAM LAKE PLANNING COMMISSION REQUEST APPLICATION INSPECTION REPORT

MTG DATE: April 26, 2021

INSPECTION ISSUED TO: Dave Ringler
APPLICANT/CONTACT: Jeff Stalberger
TELEPHONE NUMBER: 612-799-1471 or stally68@msn.com
BUSINESS/PLAT NAME: Crosstown Rolling Acres 3rd Add
ADDRESS/LOCATION OF INSPECTION: PID# 06-32-23-32-0002, 06-32-23-34 0002 & 0004, 06-32-23-43-0002 & 0006, 06-32-23-44-0011
APPLICATION FOR: Preliminary Plat
RECOMMENDATION:
DATE:
PLANNING COMMISSIONER SIGNATURE:



PLANNING REQUEST

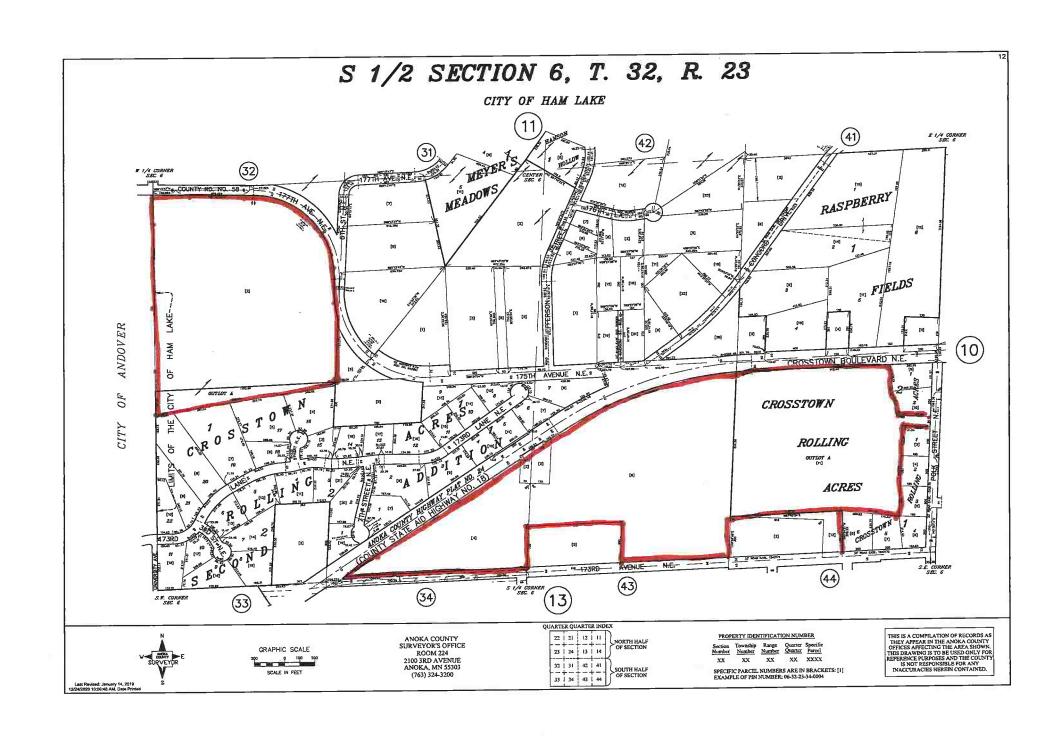
CITY OF HAM LAKE

15544 Central Avenue NE Ham Lake, MN 55304

PROPERTY TAXES CURRENT YES

REQUESI	nam Lake, IVIN 55304
/ / Ph	none (763) 434-9555 Fax (763) 235-1697
Date of Application $\frac{7/2}{2020}$	Date of Receipt
//	Receipt #
Meeting Appearance Dates:	
Planning Commission	4-24-202 City Council
Please check request(s):	
Metes & Bounds Conveyand	ce Commercial Building Permit
Sketch Plan	Certificate of Occupancy
Preliminary Plat Approval*	Home Occupation Permit
Final Plat Approval	Conditional Use Permit (New)*
Rezoning*	Conditional Use Permit (Renewal)
Multiple Dog License*	Other
*NOTE: Advisory Signage is required for la	and use alterations and future road connections. This
application also requires a Public	Hearing. Such fees shall be deducted from deposit.
Development/Business Name: 1055	town Development LCC
Address/Location of property:	10. 58 & Cross town Blund.
Logal Description of property: Putlet	A-Crosstown Rolling Acres Outlot A C.R.A 2rd
06-32-23-32-000 a	21
PIN # 06-32-23-34-0002 000	Current Zoning $R-A$ Proposed Zoning $R-1$
Notes: 06-32-33-44-00//	Crosstown Rolling Acres 3rd Add.
Applicant's Name: JEFFREY ST	malburger
Business Name: (1055 tour Dr	who pent LLC
Address / 2404- WARD	4K. DI. NW
City Andoner	State MA. Zip Code 55304
Phone 12-799-1471 Cell P	hone Fax
Email address 7444	68 @ Msn. com
	·
	eriod required by Minnesota Statutes Chapter 15.99 does
	ems have been received by the City of Ham Lake.
SIGNATURE SULL	DATE 7/21/2020
***************************************	***************************************
- FOR	STAFF USE ONLY -
ACTION BY: Planning Commission	

City Council _____



CITY OF HAM LAKE

15544 Central Avenue NE Ham Lake, Minnesota 55304 (763) 434-9555 Fax: (763) 434-9599

NOTICE OF PUBLIC HEARING CITY OF HAM LAKE COUNTY OF ANOKA STATE OF MINNESOTA

TAKE NOTICE, that pursuant to the requirements of Minnesota Law, a public hearing shall be held before the Ham Lake Planning Commission on Monday, April 26, 2021 at 6:01 p.m. at the City Hall located at 15544 Central Avenue NE for the purpose of considering the application of Jeff Stalberger, Crosstown Development, LLC, requesting preliminary plat approval and rezoning to R-1 (single family residential) for the development of Crosstown Rolling Acres 3rd Addition (49 residential single family lots) located in Section 6, a parcel of certain land situated in the City of Ham Lake, Anoka County, Minnesota and which is described as follows to wit:

Outlot A, CROSSTOWN ROLLING ACRES, Anoka County, Minnesota.

AND

Outlot A, CROSSTOWN ROLLING ACRES SECOND ADDITION, Anoka County, Minnesota.

AND

That part of the Northwest Quarter of Southwest Quarter of Section 6, Township 32, Range: 23, Anoka County, Minnesota, lying southerly and southwesterly of the centerline of County Road No. 58 (A.K.A. 177th Avenue N.E.).

AND

That part of the South Half of the Southwest Quarter of Section 6, Township 32, Range 23, Anoka County, Minnesota, lying southeasterly of the southerly right of way line of C.S.A.H. No. 18 (A.K.A. Crosstown Boulevard N.E.).

AND

That part of the South Half of the Southwest Quarter of the Southeast Quarter of Section 6, Township 32, Range 23, Anoka County, Minnesota, lying southerly and southeasterly of the southerly right of way line of C.S.A.H. No. 18 (A.K.A. Crosstown Boulevard N.E.).

EXCEPT THAT PART OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SAID SECTION 6 DESCRIBED AS FOLLOWS:

Commencing at the Southwest corner of the Southwest Quarter of the Southeast Quarter of said Section 6; thence North along the West line of said Southwest Quarter of Southeast Quarter a distance of 300 feet; thence East and parallel with the South line of said Southwest Quarter of Southeast Quarter a distance of 616 feet; thence South and parallel with the West line of said Southwest Quarter of Southeast Quarter a distance of 300 feet, to the South line of said Southwest Quarter of Southeast Quarter; thence West along said South line to the point of beginning.

At such hearing both written and oral comments will be heard.

DATED: April 16, 2021

Jennifer Bohr Zoning and Building Clerk City of Ham Lake



Office (763) 862-8000 Fax (763) 862-8042

Memorandum

Date:

April 22, 2021

To:

Planning Commissioners

From:

Tom Collins, City Engineer

Subject:

Crosstown Rolling Acres Third Addition

Introduction:

The Preliminary Plat, Grading, Erosion Control and Tree Protection Plan, Livability Plan, Street and Storm Sewer Profiles, Stormwater Sizing & Location Plan, Details, Stormwater Drainage Report and Stormwater Pollution Prevention Plan were received March 25th, the revised Title Sheet T1 and Street Plan and Profile sheets C1.4 and C1.5 and revised storm sewer sizing calculations were received on March 31st and the revised Preliminary Plat Sheet 1 and Grading, Erosion Control and Tree Protection Plan Sheets 4 and 5 were received on April 22nd for the proposed 49 lot residential development located on 102.6 non-contiguous acres of parcels 06-32-23-32-0002, 06-32-23-34-0002, 06-32-23-34-0004, 06-32-23-43-0002, 06-32-23-43-0005, 06-32-23-43-0006 and 06-32-23-44-0011. The Third Addition is a portion of the overall Crosstown Rolling Acres plan that received Sketch Plan approval at the February 5, 2018 City Council meeting. The parcels are currently zoned Rural Single Family Residential (R-A) and will be zoned R-1. All of the prior review comments have been addressed.

Discussion:

173rd Avenue at Crosstown Boulevard is being realigned to a 90-degree intersection, per the requirements of the Anoka County Highway Department. There is an existing power line (and possibly other utilities) within the current roadway for 173rd Avenue. These utility(s) will need to be relocated to allow for the vacation of the right-of-way for that portion of 173rd Avenue adjacent to the outlots once the realignment is completed. If the utility(s) are not relocated, the road easement can be vacated while recording a drainage and utility easement containing the utility(s).

Three outlots are shown in the southwesterly portion of the proposed development. The 392 square foot Outlot A is to be combined with the adjacent 430 173rd Avenue parcel to the south. The 14,816 square foot Outlot B is to be combined with the adjacent 444 173rd Avenue parcel to the south. The 5,273 square foot Outlot C is to be combined with adjacent 450 173rd Avenue to the south. The Development Agreement will include the conveyance of the outlots to the adjacent properties.

A License Agreement will be required for Lot 15, Block 1 and Lot 9, Block 3 due to the septic lines crossing the drainage and utility easement. A License Agreement will also be required for the Lot 16, Block 1 driveway being located within a drainage and utility easement. The Lot 16, Block 1 driveway is proposed to be located within the drainage and utility easement so that Public Works can access the Pond 4 outlet and the storm sewer on the west side of the driveway

from the designated City maintenance access on the east side of the driveway. The License Agreements will be covered in the Development Agreement.

A FEMA Letter of Map Amendment is required for Lot 15, Block 1 and Lots 11 and 12, Block 3. The Development Agreement will stipulate that these lots are not eligible for a building permit until the Letter of Map Amendment is approved by FEMA.

The Braun Intertec Revised Summary of Water Level Readings and Lowest Floor Slab Recommendations that was received August 27, 2018 adequately addressed prior review comments. The April 20th Tradewell letter certifies that each of the proposed lots will support two standard septic systems in accordance with Minnesota Rules 7080.

The north portion of the development (Block 3) is located within the Upper Rum River Watershed Management Organization (URRWMO). The wetland buffers provided meet the requirements of the URRWMO based on the Minnesota Routine Assessment Method (MnRAM) functions and values assessment of the wetlands. The Plans show grading within wetland buffers. The URRWMO requires that any areas where vegetation is removed in the buffer area during construction must be reseeded with a native seed mix, and the applicant is responsible for maintenance or reseeding for 3 years through a legally enforceable agreement with the City. Per the attached City Attorney email, enforcement will be incorporated in the Development Agreement for the grading proposed by the Developer and either in the Short Form Development Agreement or as a special condition of any building permit for grading by lot owners.

The Coon Creek Watershed District conditionally approved the development at the March 22nd Board of Managers meeting. The Anoka County Highway Department has not completed their review. Per the attached Preliminary Turn Lane Plan, it is anticipated that the improvements to Crosstown Boulevard include the 7th Street connection from the Crosstown Rolling Acres Second Addition and construction of both east bound and west bound left and right turn lanes at 7th Street. The anticipated improvements to County Road 58 include removal of the 173rd Lane intersection and construction of a southbound right turn lane and a northbound bypass lane.

The Midwest Natural Resources rare plant survey documented the presence butternut trees within the properties, which the DNR has classified as endangered. The DNR is requiring the execution of a Special Permit for the taking of approximately 49 butternut trees. The Developer has acknowledged that the permit will be obtained after preliminary plat approval is received. Grading cannot commence without this permit.

Recommendations:

It is recommended that the Preliminary Plat of Crosstown Rolling Acres Third Addition be recommended for approval to the City Council.

Tradewell Soil Testing 18330 Dahlia Street NW Cedar, MN 55011

April 20th, 2021

RFC Engineering 13635 Johnson Street NE Ham Lake, MN 55304 Attention: Tom Collins

Dear Mr. Collins:

As a licensed site evaluator who conducted the soil borings in Crosstown Rolling Acres 3rd for Jeff Stalberger, I found the following: Each boring has at least 12" of natural, undisturbed and unmottled soil. In order to design and install a standard soil treatment system according to MN Chapter 7080 Code, at least 12" of natural soil with no signs of mottling is required. Therefore, each of the proposed lots will support 2 "standard" septic systems within the 7,500 square feet septic area as shown on the Grading Plan. Sincerely,

Mark Tradewell MPCA #307

Tom Collins

From:

Joseph Murphy <joseph.murphy@carsoncs.net>

Sent:

Wednesday, April 21, 2021 10:39 AM

To:

Tom Collins

Subject:

RE: Crosstown Rolling Acres 3rd Addition

Hi Tom,

I think that the enforcement of this URRWMO rule requirement will have to be incorporated into the development agreement and the short form development agreement. The obligations of the developer for grading and re-seeding Lots 2, 3, 4, 7 and 8 can be expressly included in the development agreement. The language of the development agreement can also provide that these specific obligations continue for the developer's successors in title. The grading during construction for lots 11 and 12 is potentially more complicated, but I think we can do so through the short form development agreement and recording that with the county. Similar to the drainage fund contribution or park land dedication lien typically expressed in the short form agreement, the city could make the release of the lien contingent upon the buyer entering into a legally enforceable agreement with the city upon the sale of each impacted lot. It could also potentially be addressed as a special condition of any building permit (or certificate of occupancy) issued by the city. Those are a few options, but we can continue to review how this URRWMO rule has been implemented in the past prior to drafting the development agreement and short form agreement.

Thanks,

Joseph Murphy Carson, Clelland & Schreder 6300 Shingle Creek Parkway, Suite 305 Minneapolis, MN 55430 (763)-561-2800

From: Tom Collins [mailto: TCollins@rfcengineering.com]

Sent: Wednesday, April 14, 2021 9:35 AM

To: Joseph Murphy < <u>ioseph.murphy@carsoncs.net</u>>
Subject: FW: Crosstown Rolling Acres 3rd Addition

Hi Joe,

The public hearing for the Preliminary Plat of Crosstown Rolling Acres 3rd Addition is scheduled for the April 26th Planning Commission meeting. Can I get a response to the November email below so that I can include it in my recommendation for approval memo?

Tom

From: Tom Collins

Sent: Wednesday, November 18, 2020 12:49 PM

To: 'Joseph Murphy' < joseph.murphy@carsoncs.net >

Subject: Crosstown Rolling Acres 3rd Addition

Hi Joe,

Crosstown Development is proposing a new residential development (Crosstown Rolling Acres 3rd Addition) that is within the Upper Rum River Watershed Management Organization (URRWMO). Ham Lake and the URRWMO have a joint powers agreement to enforce the URRWMO Rules. The URRWMO requires wetland buffers adjacent to wetlands, and the project is proposing filling within some wetland buffers. Per the URRWMO Rules:

"The delineated wetland, but not necessarily the buffer area, must be protected during construction with appropriate perimeter erosion control... Any areas where vegetation is removed in the buffer area during construction must be reseeded with a native seed mix, and the applicant is responsible for maintenance or reseeding for 3 years through a legally enforceable agreement with the city/township. These requirements do not apply if the buffer area vegetation is not disturbed during construction..."

Trying to determine how the City can enforce this Rule requirement. There are a total of 7 lots that are proposing grading within the buffer within Block 3. The grading for Lots 2, 3, 4, 7 and 8 will be completed by the Developer for construction of the stormwater ponds. The grading for Lots 11 and 12 will occur during home construction. It is anticipated that all of these 7 lots (shown in red on the attached) will sell well before the 3-year period expires, so trying to determine how the City can enforce the Rules. Include the requirement within the Development Agreement, which could pass on to the lot buyer? Have to record something with the County?

We are having the developer update the plans to stipulate that these areas need to be reseeded with native seed mix.

Tom



NOTICE OF PERMIT APPLICATION STATUS

Project:

Crosstown Rolling Acres 3rd Addition

Date:

March 26, 2021

Applicant:

Crosstown Development 17404 Ward Lake Dr NW

Andover, MN 55304

Permit Application#:

20-097

Purpose:

Residential development for 38 single family homes

Location:

Crosstown Blvd NE (173rd-176th), Ham Lake MN

At their meeting on March 22, 2021 the Board of Managers of the Coon Creek Watershed District **conditionally approved** the above referenced project with 4 conditions and 2 stipulations. **This is NOT a permit.**

Since your last submittal on 3/25/2021, the following 2 conditions remain which must be addressed before permit issuance (please see note below on how to address conditions).

1. Receipt of escrows.

2. Provide DNR Takings Permit. If the DNR requires significant changes to the site plan, additional requirements and Board review may be needed prior to issuance of permit.

Please note that there is also 2 stipulations.

Please be advised that **this is NOT a permit**, and that work without a permit is a violation of the terms of the Coon Creek Watershed District Rule 5.1. If you have any questions, please call 763-755-0975.

Sincerely,

Erin Edison

Water Resource Regulation Coordinator

cc:

File 20-097

Ed Matthiesen, Wenck Danielle Tourtillott, Wenck Tom Collins, City of Ham Lake

Tom Collins

From:

Michelle A. Pritchard < Michelle.Pritchard@co.anoka.mn.us>

Sent:

Tuesday, March 30, 2021 10:06 AM

To:

David Krugler

Cc:

Jane Rose; Daniel Frey; Joe J. MacPherson; Tom Collins

Subject:

RE: PAN 20-097 (Crosstown Rolling Acres 3rd Addition)

David,

We actually didn't really get started on a review because they were missing several components in their plans that would be needed to do a comprehensive review. I did let them know on March 24 that they will need to include this information prior to our review, including road stationing, removals, shoulder information, cross-sections, signing/striping, etc.

That said, we do share your concern about the excessive cross-slope and would ask them to provide an engineering justification for it. I think we'd want to see a superelevation plan, and they would need to update the typical section to match what they are actually proposing.

Michelle Pritchard

Design Engineer

Anoka County Highway Department

Direct - 763.324.3162 Office - 763.324.3100

Fax - 763.324.3020

Michelle.Pritchard@co.anoka.mn.us

From: David Krugler < DKrugler@rfcengineering.com>

Sent: Tuesday, March 30, 2021 9:32 AM

To: Michelle A. Pritchard < Michelle. Pritchard@co.anoka.mn.us>

Cc: Jane Rose <Jane.Rose@co.anoka.mn.us>; Daniel Frey <Daniel.Frey@co.anoka.mn.us>; Joe J. MacPherson

<Joe.MacPherson@co.anoka.mn.us>; Tom Collins <TCollins@rfcengineering.com>

Subject: RE: PAN 20-097 (Crosstown Rolling Acres 3rd Addition)

Michelle,

We are reviewing the latest plan set from Plowe regarding Crosstown Rolling Acres 3rd Addition. Plowe has stated plans were supplied to Anoka County on 3/15. There is enough information for the proposed intersection of 176th Lane NE and CSAH 58 that has raised a question.

They are showing an existing 7.3% superelevation of CSAH 58 at the intersection. They are showing a 0.9% slope sloping away from the curve. The plan shows an algebraic difference of 8.2% which exceeds the maximum 7% algebraic difference between the through-lane slope and the shoulder slope and also which is less than the minimum 1% required for the shoulder.

The MnDOT design manual discusses the necessity to allow for a greater algebraic difference with supers larger than 6% and AASHTO allows up to a 8% algebraic difference.

Their typical also doesn't describe the slope conditions of the turn lane, if they are to match the superelevation or if they are to provide the 2% grade as suggested.



David A. Krugler, P.E. RFC Engineering, Inc. (763) 862-8000 (763) 862-8042 (fax) (763) 207-9853 (Direct)

From: Michelle A. Pritchard < Michelle. Pritchard@co.anoka.mn.us>

Sent: Wednesday, January 20, 2021 8:48 AM

To: Joe J. MacPherson < Joe. MacPherson@co.anoka.mn.us>; Tom Collins < TCollins@rfcengineering.com>

Cc: Jane Rose < Jane.Rose@co.anoka.mn.us >; Daniel Frey < Daniel.Frey@co.anoka.mn.us >

Subject: RE: PAN 20-097 (Crosstown Rolling Acres 3rd Addition)

Thanks Tom. We have not received engineering plans, only preliminary sketches, so we have not done an engineering review yet. Dan Frey has been working with Adam Ginkel at Plowe to answer his design questions as they come up.

Michelle Pritchard

Design Engineer

Anoka County Highway Department

Direct - 763.324.3162 Office - 763.324.3100

Fax - 763.324.3020

Michelle.Pritchard@co.anoka.mn.us

From: Joe J. MacPherson < Joe. MacPherson@co.anoka.mn.us>

Sent: Wednesday, January 20, 2021 8:34 AM **To:** Tom Collins < TCollins@rfcengineering.com>

Cc: Michelle A. Pritchard < Michelle. Pritchard@co.anoka.mn.us>; Jane Rose < Jane. Rose@co.anoka.mn.us>

Subject: RE: PAN 20-097 (Crosstown Rolling Acres 3rd Addition)

Thank you for the update. Please keep me informed on the status of this project so I can keep everyone on our end updated.

Sincerely,

Joe MacPherson

From: Tom Collins < TCollins@rfcengineering.com>
Sent: Wednesday, January 20, 2021 8:12 AM

To: Joe J. MacPherson < Joe. MacPherson@co.anoka.mn.us>

Cc: Michelle A. Pritchard < Michelle. Pritchard@co.anoka.mn.us>; Jane Rose < Jane. Rose@co.anoka.mn.us>

Subject: RE: PAN 20-097 (Crosstown Rolling Acres 3rd Addition)

Joe,

The temporary access will be removed with the Crosstown Rolling Acres 3rd Addition project. CRA3 has not yet received approval from the CCWD and has not received preliminary plat approval from the City. I do not know whether the Engineering Plan Review at the County has been completed and/or whether the County has issued a permit. Anticipating that the project will have all necessary approvals by the time road restrictions are lifted, and the CR58 temporary access will be removed after the CSAH 18 accesses are constructed.

Tom

From: Joe J. MacPherson < Joe. MacPherson@co.anoka.mn.us>

Sent: Wednesday, January 20, 2021 7:41 AM

To: Tom Collins <TCollins@rfcengineering.com>; Michelle A. Pritchard < Michelle.Pritchard@co.anoka.mn.us>; Jane Rose

<Jane.Rose@co.anoka.mn.us>

Subject: FW: PAN 20-097 (Crosstown Rolling Acres 3rd Addition)

I wanted to check in on this development and the removal of the temporary access on CR 58 (175th Avenue). Have any of you heard anything about the status of this project recently?

Sincerely,

Joe MacPherson

From: JEFFREY Stalberger < sent: Tuesday, November 3, 2020 11:23 AM

To: Joe J. MacPherson < Joe. MacPherson@co.anoka.mn.us>; Susan M. Burgmeier < Susan.Burgmeier@co.anoka.mn.us>;

Jane Rose Jane Rose Jane.Rose Jane.Rose Jane.Rose Jane.Rose Jane.Rose Jane.Rose Jane.Rose <a href="m

Subject: Fw: PAN 20-097 (Crosstown Rolling Acres 3rd Addition)

EXTERNAL EMAIL ALERT: This message originated from outside the Anoka County email system. **Use Caution** when clicking hyperlinks, downloading pictures or opening attachments.

Joe, see below.

We are moving forward just trying to get through the Coon Creek Water shed which is not an easy task.

Jeff

From: Adam Ginkel <adam@plowe.com>
Sent: Tuesday, November 3, 2020 10:29 AM

To: Matthew Danzl <mdanzl@cooncreekwd.org>; Tom Collins@rfcengineering.com>

Cc: Jason Rud < irud@egrud.com>; Jeff Stalberger (stally68@msn.com) < stally68@msn.com>; Matt Davich

<mdavich@egrud.com>

Subject: PAN 20-097 (Crosstown Rolling Acres 3rd Addition)

Matt, Tom:

Below is a link to the revised plans and calculations for Crosstown Rolling Acres 3rd Addition. The revisions were in response to CCWD and RFC review comments.

https://www.dropbox.com/sh/j7vk6pw37jes8lw/AAAnxDZiDxXmV-ilS4vJ4S2Oa?dl=0

The link includes:

- 1. CROSSTOWN ROLLING ACRES 3RD(11-02-20), which includes:
 - a. Preliminary Plat
 - b. Grading, Erosion Control and Tree Protection Plan

- c. Livability Plan
- d. Livability Chart
- 2. 1882 Civils (11-2-2020), which includes
 - a. Utility Plan
 - b. Details
 - c. SWPPP
- 3. Stormwater Drainage Report
- 4. Drainage Areas Maps
- 5. Storm sewer sizing calculations
- 6. Response memo to CCWD comments
- 7. Response memo to RFC comments
- 8. MPCA Contamination screening checklist
- 9. Rare Plant Survey (by Midwest Natural Resources)
- 10. Draft of a DNR "Take" permit

Two (2) paper copies of the above materials will be delivered to CCWD office. (Tom – if you would like a paper copy, let me know).

Thanks, and let me know if you have any questions.

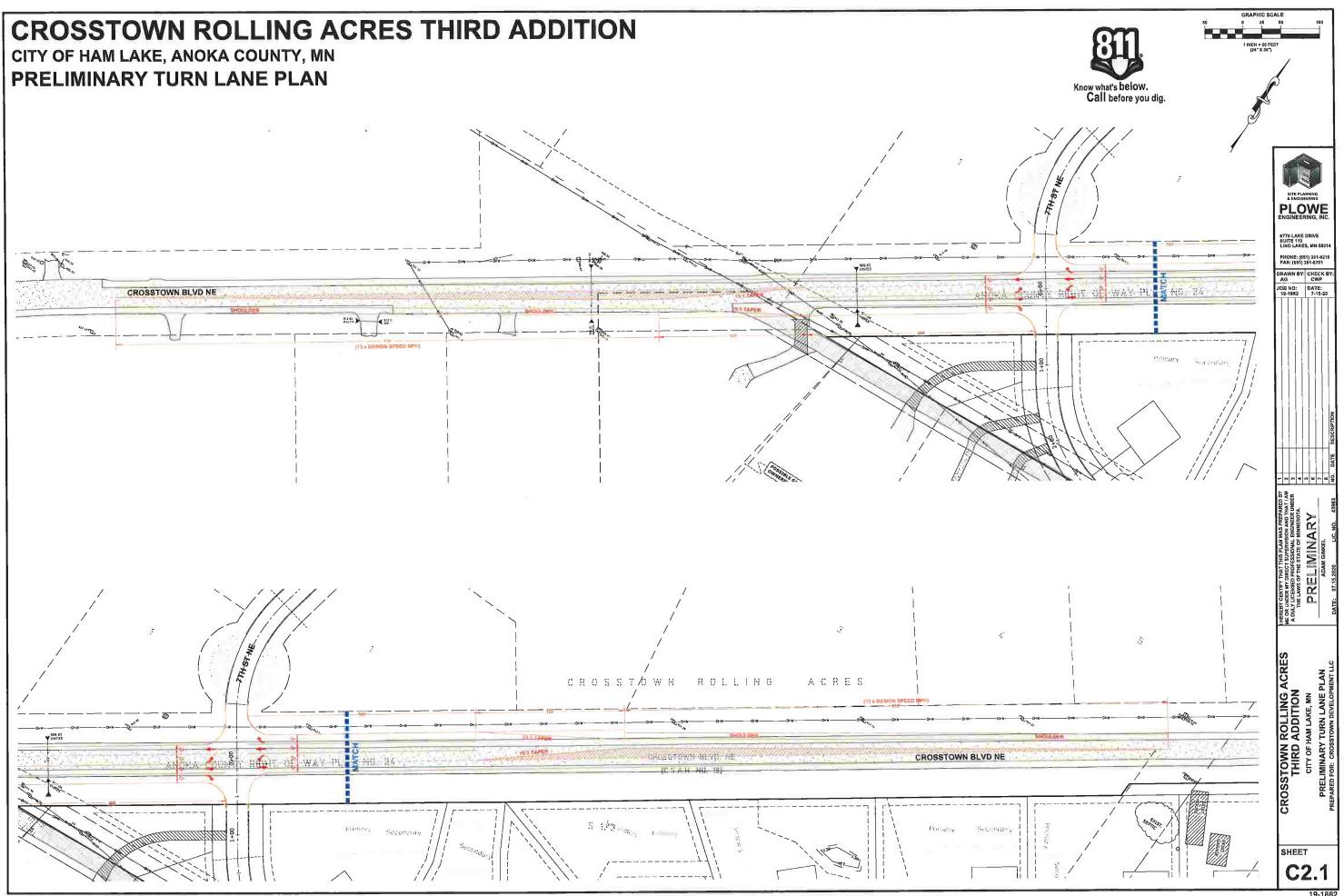
Adam Ginkel PLOWE ENGINEERING, INC. 6776 Lake Dr Ste 110 Lino Lakes, MN 55014 (651) 361-8234

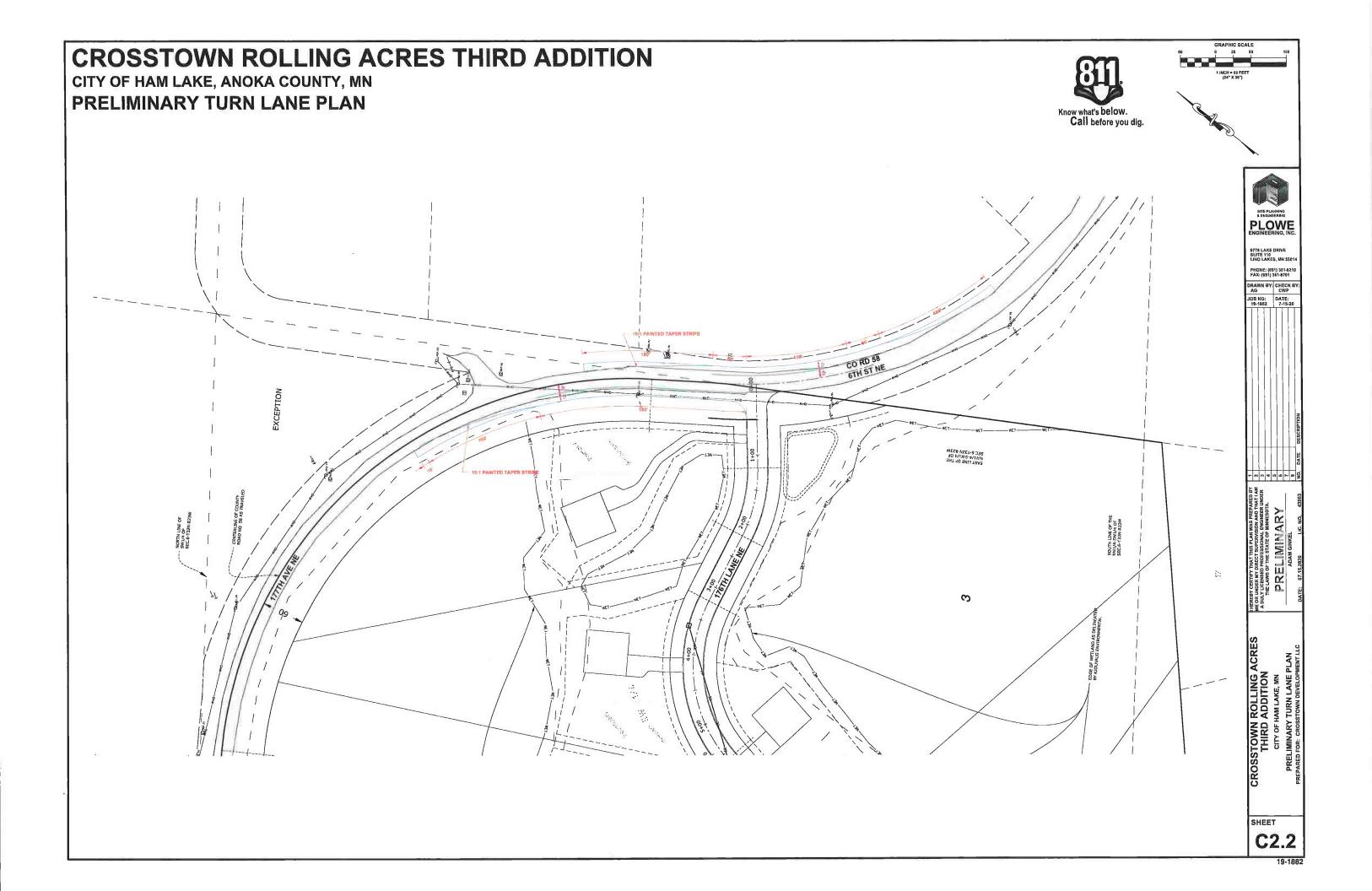
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Mr. Jeffrey Stalberger 2500 Shadywood Road, Suite 130 Orono, MN 55331

December 12, 2018

Mr. Stalberger,

Midwest Natural Resources, Inc. (MNR) is pleased to provide the following rare plant survey report for the recent survey effort for the Crosstown 2 South Development located in Ham Lake, Minnesota (Figure 1). This is a revised report, which now includes an additional parcel component that had been surveyed in 2017.

Background Data

Prior to conducting field surveys, MNR staff reviewed available data including aerial photographs and other spatial resources for the approximately 60-acre project area. This included the Minnesota Department of Natural Resources (DNR) Native Plant Community and the Sites of Biodiversity Significance data layers. There are no native plant communities mapped within the project area according to the Native Plant Community data layer (Figure 2), and the site is not within an area identified in the Sites of Biodiversity Significance data layer (Figure 3).

There was no request of the DNR's Natural Heritage Information System (NHIS) database to determine if there are known element occurrences either at the near the proposed development site. However, surveys conducted previously by MNR staff in the area documented the presence of butternut (*Juglans cinerea*) nearby.

Field Methods

The site was surveyed in two phases by MNR botanist, Otto Gockman. The eastern component was surveyed on September 29, 2017 as part of a preliminary reconnaissance effort. No formal report had been prepared for that survey. The western component was surveyed this year on October 3, 2018 and a subsequent report was issued in October.

The sites were evaluated for all potential state-listed species known from this region of the state. The survey effort involved meandering throughout the site, focusing on areas with suitable habitat for rare species. Both survey efforts additionally evaluated the potential for early season species since surveys were conducted at the end of each growing season.

Locations of state-listed species when observed were documented spatially using a sub-meter GPS unit. Representative photos were also collected for observed state-listed species were collected. Voucher specimens were not collected due to the growth form of the target species.

Results

The site includes a house and two large hay fields as well as several woodland areas. The wooded portions of the site are fire-dependent forest dominated by pin oak (*Quercus ellipsoidalis*), red oak (*Quercus rubra*), red maple (*Acer rubra*), and black cherry (*Prunus serotina*). The shrub layer varies in density but typically includes American hazel (*Corylus americana*), highbush blackberry (*Rubus allegheniensis*), and other species of *Rubus*. The ground layer is rare to sparse in terms of cover, likely due to the late timing of surveys. Ground layer species noted, include Pennsylvania sedge (*Carex pennsylvanica*) and interrupted fern (*Osmunda claytoniana*). The site also includes a portion of a wetland community dominated by reed canary grass (*Phalaris arundinacea*), woolgrass (*Scirpus cyperinus*), and steeplebush (*Spiraea tomentosa*).

In total, 105 vascular plant species were noted during survey efforts. This included butternut, which was found in the wooded components of the western segment (**Figure 4**). This species has a state status of Endangered in Minnesota. No other state listed species were observed during this late season survey effort. A list of all vascular plants observed during our survey effort were documented and included in **Appendix A** and representative photos of the site and of the butternut found onsite are provided in **Appendix B**.

Conclusion

As noted, one state-listed species, butternut, was documented during survey efforts. This species is protected by state law which prohibits the taking, importing, transportation, or selling of any part of a threatened or endangered species. A taking permit through the DNR will be required if impacts are unavoidable. No other state-listed species were observed, and no additional surveys next spring are recommended based on our field review. The spatial data collected during the survey effort has been provided to the DNR in accordance with our collector's permit. This dataset is also being provided to you to help with site planning.

Please feel free to contact us with any questions.

Best regards,

Scott A. Milburn, M.S., PWS, CWD

Sr. Botanist/President

Midwest Natural Resources, Inc.

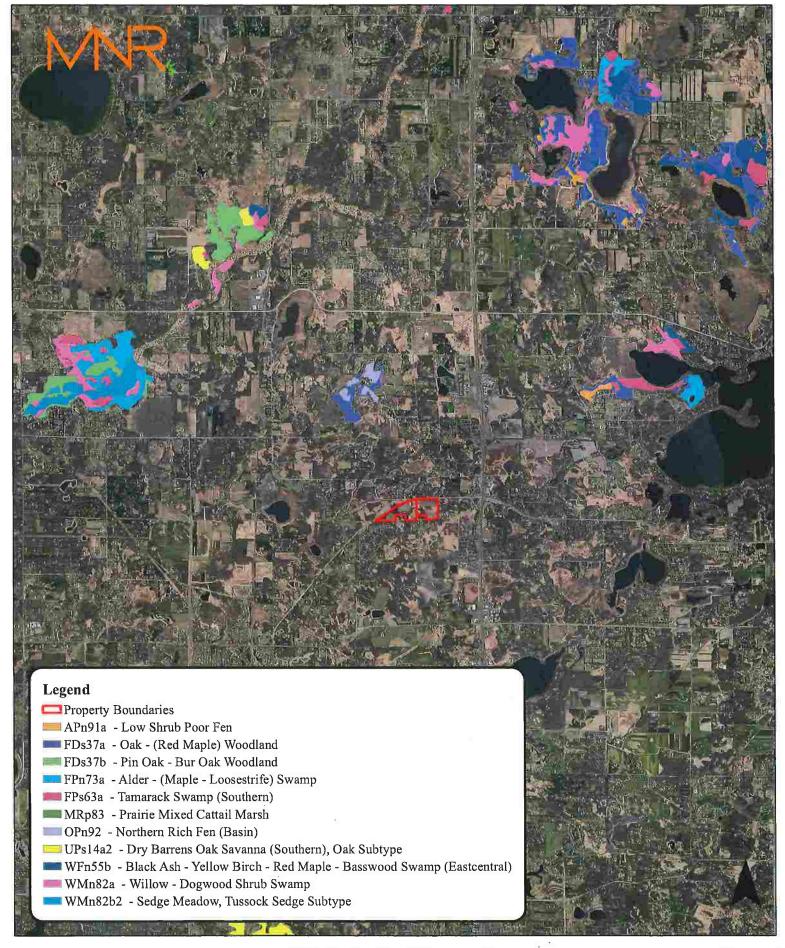


Project Location Crosstown 2 South/East Parcel Ham Lake, Anoka County, Minnesota

1 Miles

0.5

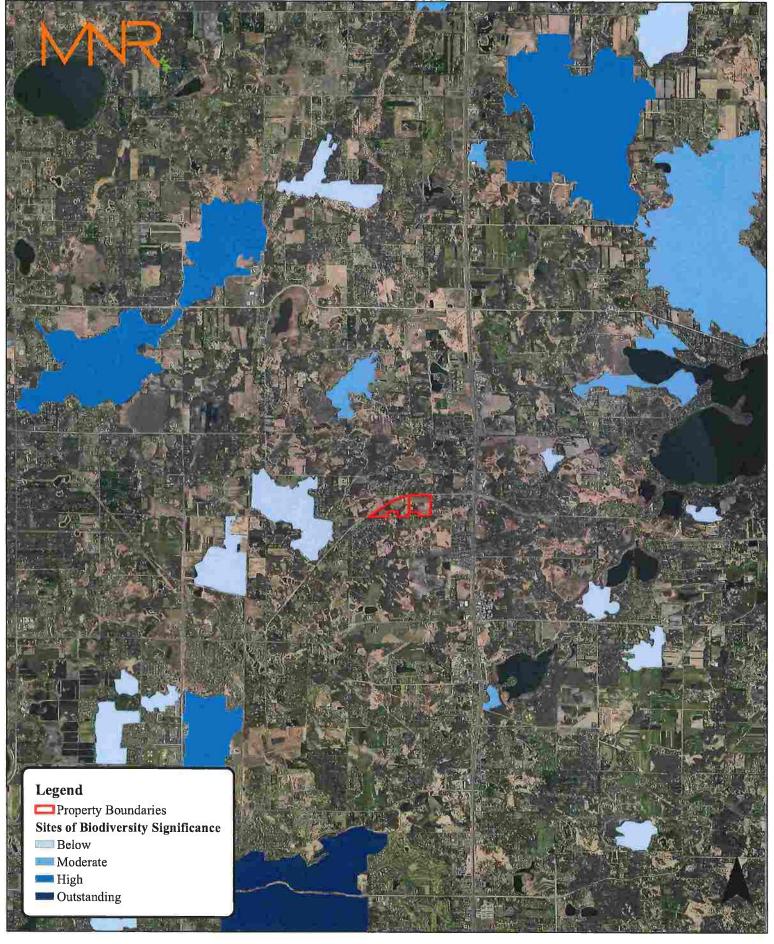
Figure 1



DNR Native Plant Communities Crosstown 2 South/East Parcel Ham Lake, Anoka County, Minnesota

0.5

1 Miles



Sites of Biodiversity Significance Crosstown 2 South/East Parcel Ham Lake, Anoka County, Minnesota

1 Miles

Figure 3



Survey Results Crosstown 2 South/East Parcel Ham Lake, Anoka County, Minnesota

Figure 4

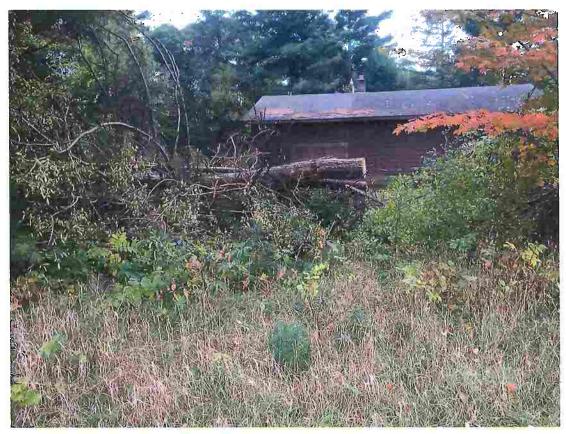
APPENDIX A

Species List

Species List		
Acer negundo	Morus alba	
Acer rubrum	Onoclea sensibilis	
1cer saccharinum	Osmorhiza claytonii	
lchillea millefolium	Osmorhiza longistylis	
Imphicarpaea bracteata	Osmunda regalis	
Iquilegia canadensis	Parthenocissus vitacea	
Iralia nudicaulis	Persicaria amphibia	
Asclepias syriaca	Persicaria sagittata	
thyrium filix-femina	Phalaris arundinacea	
Betula papyrifera	Phleum pratense	
Botrychium dissectum	Picea cf glauca	
Bromus inermis	Pinus banksiana	
Calamagrostis canadensis	Pinus resinosa	
Carex lasiocarpa	Pinus strobus	
Carex pellita	Poa pratensis	
Carex pensylvanica	Populus tremuloides	
Carex utriculata	Prunus serotina	
Centaurea stoebe	Ouercus alba	
Conyza canadensis	Quercus ellipsoidalis	
Cornus racemosa	Quercus curpsolutus Ouercus rubra	
Corylus americana	Rhus typhina	
Corylus cornuta	Ribes missouriense	
Dactylis glomerata	Robinia pseudoacacia	
Desmodium glutinosum	Rubus idaeus	
Desmoanum grunnosium Dichanthelium acuminatum	Rubus occidentalis	
Diervilla lonicera	Rumex acetosella	
	Sambucus racemosa	
Dryopteris carthusiana		
Dryopteris cristata	Scirpus cyperinus Scutellaria galericulata	
Echinocystis lobata		
Eleocharis palustris	Solidago altissima	
Elymus repens	Solidago canadensis	
Eragrostis spectabilis	Sorbus aucuparia	
Euthamia graminifolia	Sorghastrum nutans	
Fragaria virginiana	Spiraea alba	
Fraxinus pennsylvanica	Spiraea tomentosa	
Glechoma hederacea	Symphyotrichum ciliolatum	
Gleditsia triacanthos	Symphyotrichum lanceolatum	
Helianthus hirsutus	Taraxacum officinale	
Humulus lupulus	Thelypteris palustris	
llex verticillata	Thuja occidentalis	
Iris versicolor	Toxicodendron rydbergii	
Juglans cinerea	Triadenum fraseri	
Juglans nigra	Typha x glauca	
Iuncus brevicaudatus	Ulmus americana	
Juncus canadensis	Ulmus pumila	
luniperus virginiana	Urtica dioica	
Lonicera X bella	Uvularia sessilifolia	
Lycopodium clavatum	Vaccinium angustifolium	
Lycopus uniflorus	Verbascum thapsus	
Maianthemum canadense	Viburnum lentago	
Maianthemum racemosum	Viola sororia	
Medicago sativa	Vitis riparia	

APPENDIX B

Representative Photos



Residential component



Open hay field



Mesic hardwood forest



Wetland component



Juglans cinerea tree (left) and branch showing characteristic leaf-scar (right)



STATE OF MINNESOTA DEPARTMENT OF NATURAL RESOURCES DIVISION OF ECOLOGICAL AND WATER RESOURCES 500 LAFAYETTE ROAD, BOX 25 ST. PAUL, MN 55155

SPECIAL PERMIT NO. 28536

(Taking of endangered and/or threatened species) April 27, 2020

TO WHOM IT MAY CONCERN:

Under the authority of Minn. Statutes, Section 84.0895 and Minn. Rules, Parts 6212.1800-2100, and informed by the accompanying Findings of Fact and Decision Rationale, permission is hereby granted to:

> Jeff Stalberger Crosstown Development, LLC 17404 Ward Lake Dr NW. Andover, MN 55304

and his agents, employees, and contractors, to take 49 state-endangered Butternut trees (Juglans cinerea), incidental to development of the Crosstown Rolling Acres residential development in Ham Lake, Anoka County, MN, subject to the following conditions:

- 1. Permitted take of the specified listed species is limited to the 99.88 acre area of proposed development within Section 6, Township 32N, Range 23W, Ham Lake, Anoka County, as depicted in the attached graphic. Any additional taking of endangered or threatened species is beyond the authority of this permit and may only be conducted under the authority of a separate permit.
- 2. The Permitee shall contact the University of Minnesota Arboretum's Plant Conservation Program and allow them the opportunity to salvage any of the listed species for conservation purposes at least 7 days prior to destruction.
- 3. Compensatory mitigation for this taking totals dollars (\$26,000), which will be provided to the Minnesota Department of Natural Resources, pursuant to Minn. Statutes, 84.085 subd. 1., for the purpose of funding research, surveys, land protection, and/or land management activities contributing to the recovery and eventual delisting of endangered and threatened plants in Minnesota, and so create a net benefit to these species in Minnesota.

 This permit is effective indefinitely upon receipt of mitigation payment by the DNR. Receipt by the D 	
Steve Colvin Director, Division of Ecological and Water Resources	Date
I hereby certify that I have read, understand, and acc that this permit is not valid unless it is signed by me.	ept the provision of this permit and understand
Jeff Stalberger, Permittee	Date

C: Richard J. Baker, Endangered Species Coordinator, Div. Ecological and Water Resources Dan Lais, Regional Manager, Div. Ecological and Water Resources Jan Shaw Wolff, EMP Section Manager, Div. Ecological and Water Resources Jason Peterson, District Supervisor, Div. Enforcement Jane Norris, CMRR Supervisor, Div. Ecological and Water Resources Becky Horton, Reg. Env. Assessment Ecologist, Div. Ecological and Water Resources Kit Elstad-Haveles, Reg. Ecologist, Div. Ecological and Water Resources Jason Husveth, Critical Connections Ecological Services, Inc. Permit Clerk, Div. Fish and Wildlife

MNDNR Special Permit No. 28536 Permittee: Stalberger

Page 2

Area in which taking is permitted ("Proposed Crosstown Rolling Acres boundary")

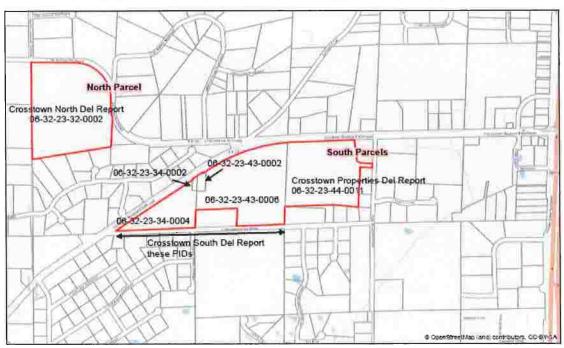
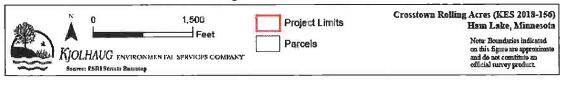


Figure 1 - Site Location





Findings of Fact and Decision Rationale **Endangered and Threatened Species Taking Permit #28536**

Crosstown Rolling Acres, Anoka County, MN Project:

Applicant: Crosstown Development, Inc.

Date:

April 27, 2020

Prepared By: Bridget Henning-Randa, Endangered Species Coordinator

Division of Ecological and Water Resources Minnesota Department of Natural Resources

History of Permit Application

1. Crosstown Development, Inc. ("Applicant") proposes to construct the Crosstown Rolling Acres residential development project ("Project") in Section 6, T32N, R23W, Ham Lake, Anoka County, Minnesota.

- 2. Midwest Natural Resources conducted rare plant surveys on the project site in September 2017, October 2018, and August 2019, during which they located and assessed the health of 49 state-listed endangered butternut trees (Juglans cinerea).
- 3. On November 8, 2019, the DNR received from the Applicant's contractor, Kjolhaug Environmental Services Company, Inc., an application for a Takings Permit on behalf of the Applicant for the taking of 49 state-listed endangered butternut (Juglans cinerea).

Justification and Scope of Proposed Taking

- 4. The Application proposes to develop 99.88 acres in the City of Ham Lake ("City") into a single-family residential development.
- 5. The Application states that because the individual butternut on the north parcel and numerous individuals in the south parcels currently have butternut canker which will likely, over time, spread to nearby relatively healthy trees, complete avoidance of butternut trees was rejected as a feasible project alternative.
- 6. The Applicant rejects minimization because even though a small number of Butternut trees are currently in relatively good health and could be avoided with customized lot grading. these trees will likely succumb to canker in the future, and custom grading would still require work to occur in at least some of the root zone, which is a stressor that often leads to or is a factor in declined tree health and viability.
- 7. The Application proposes to take 49 butternut trees.
- 8. The impact will be direct destruction of 47 trees and indirect impact on 2 trees, which occur outside the grading limits.

Justification for Permit with Compensatory Mitigation

- 9. Juglans cinerea (butternut) is a midsize to large tree that, in Minnesota, occurs in mesic hardwood forests. Until recently, it was a fairly common tree in southern Minnesota. The main issue facing butternut is the spread of the lethal fungal disease known as butternut canker, which has resulted in a massive die-off and the list of the species as endangered in Minnesota in 2013. There is no treatments for butternut canker and few trees are thought to be immune, but healthy and presumably resistant trees have been found growing adjacent to diseased trees. These trees could be extremely valuable in efforts to preserve the species.
- 10. Minn. Stat. § 84.0895 and Minn. R. 6212.1800 to 6212.2300 govern the taking of endangered or threatened species in Minnesota. Under this statute and the rules, the DNR may issue permits to applicants authorizing the take of such species under specified conditions.
- 11. Minn. Stat. § 84.0895, subd. 1, states that "a person may not take, import, transport, or sell any portion of an endangered species of wild animal or plant, ... except as provided in subdivisions 2 and 7." Subdivision 7 authorizes the commissioner of natural resources to issue permits and prescribe conditions for the taking of endangered and threatened species of animals and plants under any of four conditions, including if "the act enhances the propagation or survival of the affected species" or "the social and economic benefits of the act outweigh the harm caused by it."
- 12. Minn. R. 6212.1800, subp. 1 states that "[a] person may not take ... a threatened or endangered species of plant or animal without a permit from the commissioner." Subpart 2 states that "[a] permit may not be issued unless the commissioner has first determined that the permitted act will not be detrimental to the species."
- 13. Minn. R. 6212.2100 states that a permit for the taking of a threatened or endangered species of plant, animal, or insect, may be issued on prescribed conditions when the commissioner has determined that "the permitted act enhances the propagation or survival of the affected species" or "the social and economic benefits of the permitted act outweigh the harm caused by it, provided that the killing of a specimen for these purposes will be permitted only after all other alternatives have been evaluated and rejected."
- 14. The DNR has determined that, under some circumstances where compensatory mitigation benefits the species as a whole, it is appropriate to condition a takings permit for a proposed project that involves the take of an endangered or threatened species on compensatory mitigation that provides a net benefit to the species. Consequently, when all other conditions found in statute and rule are met, a taking may be allowed, and where a condition of a permitted take is compensatory mitigation that benefits the species as a whole, a permit can be issued for the take of an endangered or threatened species.
- 15. The DNR concludes that the Project as currently proposed is a reasonable and necessary action that provides a social benefit to the public. The DNR finds that the Applicant has considered and evaluated reasonable alternatives for the Project, and cannot avoid the proposed take of this species of threatened plant.
- 16. The DNR has determined that the harm caused to butternut by the Project as currently proposed can be fully mitigated as set forth below.
- 17. With the implementation of compensatory mitigation as described below, the DNR concludes that the Project as currently proposed and mitigated will not be detrimental to Minnesota's populations of buternut, but will enhance the conservation of these species in Minnesota. In addition, with the implementation of compensatory mitigation as described

Crosstown Rolling Acres / Findings of Fact & Decision Rationale

below, the social benefit of the Project outweighs the harm caused by the taking of the individual plants of this threatened species.

Valuation of Compensatory Mitigation for the Taking of Butternut

- 18. The Application request a permit to take 49 individual butternut trees, which have been assessed for their overall health and condition.
- 19. Compensatory mitigation will not be required for saplings or unhealthy trees.
- 20. Most of the trees are diseased or dying of butternut canker disease, but five of the individual trees have been given a rating of good (no apparent problems) and 15 trees are rated as fair (minor problems but, still relatively healthy), indicating they may have considerable conservation value to the species as a whole.
- 21. Two of the trees in good health are over 5 inches DBH and 11 of the trees in fair health are over 5 inches DBH, indicating they are potentially healthy and reproductive.
- 22. Minnesota's restitution rules (M.R. Parts 6133.0060-0070) place value on individuals of endangered animal species at \$2000 per individual. Using this guidance, and acknowledging that this guidance is intended to be applied to animals rather than plants, the DNR proposes that compensatory mitigation for the proposed taking be calculated as 13 healthy and reproductive individuals x \$2,000 per individual = \$26,000.

Based upon the above Findings of Fact, the DNR makes the following:

CONCLUSIONS

- 23. The DNR concludes that in order to attain a net benefit to Minnesota's population of butternut, it is necessary to condition any takings permit issued under Minn. Stat. § 84.095, subd. 7 on mitigation for that taking. The DNR concludes that compensatory mitigation totaling \$26,000 is reasonable.
- 24. The DNR concludes that pursuant to Minn. Stat. § 84.095, subd. 1 and Subd. 7 and Minn. R. 6212.1800, subp. 1 and Minn. R. 6212.2100 C, the social and economic benefits of the Project as mitigated outweigh the harm caused by the Project to the butternut as described herein.
- 25. DNR will issue an Endangered and Threatened Species Taking Permit for the Project that requires a compensatory mitigation payment to the DNR of \$26,000 to be used by the DNR to fund research, surveys, land protection, and/or land management activities contributing to the recovery and eventual delisting of endangered and threatened plants in Minnesota, and so create a net benefit to this species in Minnesota.





DNR RESPONSE TO COVID-19: For details on adjustments to DNR services, visit this webpage (https://www.dnr.state,mn.us/covid-19. For information on the state's response, visit the Minnesota COVID response webpage (https://mn.gov/covid19/).



(/index.html)

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Home (/index.html) > Nature (/nr/index.html) > ETSC (/ets/index.html) > Rare Species Guide (/rsg/index.html) >

Juglans cinerea L.

But

MN Status: endangered Federal Status: none

CITES: none

USFS: none

Group: vascular plant

Class: Dicotyledoneae

Order: Juglandales

Family:

Juglandaceae Life Form:

tree Longevity:

perennial Leaf Duration:

deciduous Water Regime:

terrestrial

Soils: loam

Light:

partial shade Habitats:

Mesic Hardwood **Forest**

Best time to see:

Basis for Listing

Until recently, Juglans cinerea (butternut) was a fairly common forest tree in the eastern half of the United States and Canada. Unfortunately, J. cinerea is very susceptible to butternut canker (Sirococcus clavigignenti-juglandacearum), a lethal fungal disease of unknown origin. The disease was first reported in Wisconsin in 1967 (Renlund 1971) and reached southeastern Minnesota in the 1970s. It has since spread throughout the state and throughout the North American range of J. cinerea. The fungus attacks the cambium, leaving a blackened elliptical area of dead cambium just beneath the bark (Ostry et al. 1996

(http://www.na.fs.fed.us/spfo/pubs/howtos/ht_but/ht_but.htm)). When the number of cankers becomes too great, the branch or trunk is essentially girdled and dies. There is no known treatment or control for butternut canker, and few if any trees are immune. This tragic situation has progressed to the point where nearly all J. cinerea in Minnesota are now dead or dying. The species was listed as special concern in 1996. A status of endangered was considered at that time, but it was hoped the disease could be abated. Since that time, it has become clear the threat has not and will not likely be abated in the foreseeable future. For that reason, its status was elevated to endangered in 2013.



Juglans cinerea is a midsize to large tree, with moderately thick gray to gray-brown bark. The leaves are alternate on the stem and pinnately compound, with 11-17 individual leaflets. The male flowers are borne on a slender catkin, and the female flowers are on a short spike. The fruit is an ellipsoidal nut enclosed in a thin husk covered with sticky glandular hairs.

Habitat

Juglans cinerea occurs in northern and central mesic hardwood forests

(http://files.dnr.state.mn.us/natural resources/npc/mesic hardwood/lmf mh system.pdf) (2) PDF in

the Laurentian Mixed Forest Province

(http://files.dnr.state.mn.us/natural resources/npc/mesic hardwood/lmf mh system.pdf) (A

PDF and southern mesic hardwood forests

(http://files.dnr.state.mn.us/natural_resources/npc/mesic_hardwood/ebf_mh_system.pdf) [A] PDF in the Eastern Broadleaf Forest Province (https://www.dnr.state.mn.us/ecs/222/index.html). The species occurs in loamy or alluvial soils or in sandy soil if the water table is relatively near the surface. It is perhaps most common on river terraces elevated several feet or more above the active floodplain, where it is protected from siltation and flood scouring (Smith 2008)

(https://www.dnr.state.mn.us/books/trees_shrubs_slides.html).

Biology / Life History

Until recently, J. cinerea was a fairly common tree in southern Minnesota, though it never occurred as a dominant tree. It was L seen as scattered individuals or in small groves, typically with Quercus spp. (oaks), Prunus serotina (black cherry), Tilia america (basswood), Acer saccharum (sugar maple), or Ulmus americana (American elm). Juglans cinerea is intolerant of shade, so it rar reproduces in mature forests, unless there is a substantial gap in the canopy to provide light for seedlings. The greatest recorde a J. cinerea in Minnesota is 221 years (Hale 1996), which is probably near its maximum potential.

Conservation / Management MAR

The main issue facing the conservation of J. cinerea is not loss of habitat but the spread of the lethal fungal disease known as b canker (http://www.na.fs.fed.us/spfo/pubs/howtos/ht_but/ht_but.htm) . In some areas, healthy and presumably resistant tree been found growing adjacent to diseased trees. These trees, if they are truly resistant, could be extremely valuable in efforts t









Map Interpretation (maps

/2021	Juglans cinerea : Butternut Rare Species Guide Minnesota DNR
JUN 🔚 🗀 🗀	preserve the species, and they must not be cut down. Cuttings and seeds taken from disease resistant trees and propagated in t plantations could potentially provide stock for landscaping purposes and possibly for reestablishing wild populations. It is also at to consider augmenting existing populations by direct planting of seeds taken from healthy trees. Best Time to Search
AUG SEP SEP	When searching for <i>J. cinerea</i> , it is useful to know that the bark is distinctive and, with a little practice, can be recognized at a of the year. The flowers appear in mid-spring, and the fruits develop throughout the summer, though neither flowers nor fruits a needed for identification.
ост 🗆 🗀	Conservation Efforts in Minnesota
NOV	Since 1992, there has been a moratorium on the harvest of healthy <i>J. cinerea</i> trees from state lands administered by the DNR D Forestry. While the moratorium does not prohibit the salvage or harvest of infected or dying trees; in some cases, it may be app to leave such trees for research purposes.
DEC	Authors/Revisions
	Welby Smith (MNDNR), 2008 and 2018 (Note: all content ©MNDNR)

Questions?

Call 651-296-6157 or 888-MINNDNR (646-6367)

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Tom Collins

From:

Henning-Randa, Bridget (DNR) < Bridget. Henning-Randa@state.mn.us>

Sent:

Wednesday, May 6, 2020 9:01 AM

To:

JEFFREY Stalberger; Tom Collins

Cc:

Joyal, Lisa (DNR); Horton, Becky (DNR); Wolff, Jan Shaw (DNR); Melissa Barrett

Subject:

RE: Crosstown Rolling Acres, Ham Lake - Permit for Take (Butternut)

Hi Jeff,

See my responses below in red.

Thanks, Bridget

From: JEFFREY Stalberger <stally68@msn.com>

Sent: Tuesday, May 5, 2020 1:02 PM

To: Henning-Randa, Bridget (DNR) <Bridget.Henning-Randa@state.mn.us>; Tom Collins <TCollins@rfcengineering.com> Cc: Joyal, Lisa (DNR) sa.joyal@state.mn.us>; Horton, Becky (DNR)
becky.horton@state.mn.us>; Wolff, Jan Shaw

(DNR) <jan.wolff@state.mn.us>; Melissa Barrett <melissa@kjolhaugenv.com> Subject: Re: Crosstown Rolling Acres, Ham Lake - Permit for Take (Butternut)

Hi Bridget, I do agree to the terms but have a couple questions.

- 1) I would like to wait for payment till we have preliminary plat approval from the city of Ham Lake if that is OK? Maybe 3 to 4 months. The permit will not be effective until the payment is made. If you don't need the permit in hand, we can wait to issue the permit until you are prepared to pay. Once the invoice is issued there maybe fees, if it is not paid within a month, so it may be wise to wait. Let me know what you prefer.
- 2) Do I sign this draft for the agreement or wait till you send the other? Wait for the final draft signed by DNR before you sign.
- 3) If, when we are done designing and its determined that we will not impact some of the trees can the cost be reduced to reflect that? We could stop this permit and you could apply for a permit with different design that would have less impact and less mitigation costs. But if you are needing the permit now, I do not think we can make a refund after you have paid. At least we have never done so in the past. I will check with leadership to get a definitive answer on giving refunds.

Thanks, Jeff Stalberger

From: Henning-Randa, Bridget (DNR) < Bridget.Henning-Randa@state.mn.us>

Sent: Tuesday, May 5, 2020 2:57 PM

To: JEFFREY Stalberger <stally68@msn.com>; Tom Collins <TCollins@rfcengineering.com>

Cc: Joyal, Lisa (DNR) lisa.joyal@state.mn.us>; Horton, Becky (DNR)
becky.horton@state.mn.us>; Wolff, Jan Shaw

(DNR) <jan.wolff@state.mn.us>; Melissa Barrett <melissa@kjolhaugenv.com> **Subject:** RE: Crosstown Rolling Acres, Ham Lake - Permit for Take (Butternut)

Hello Tom and Jeff,

Please, see the attached draft permit. I am sending you these as a courtesy so that you can anticipate the permit terms and make appropriate preparations. You can expect the final permit shortly, hopefully today.

Take care. Bridget

Bridget Henning-Randa, Ph.D.

Minnesota Endangered Species Consultant | Division of Ecological and Water Resources Pronouns: she/her/hers

Minnesota Department of Natural Resources

500 Lafayette Rd., Box 25 St. Paul, MN 55155

Email: <u>bridget.henning-randa@state.mn.us</u> http://www.dnr.state.mn.us/eco/nhnrp





From: Tom Collins < TCollins@rfcengineering.com>

Sent: Monday, May 4, 2020 4:30 PM

To: Henning-Randa, Bridget (DNR) < Bridget. Henning-Randa@state.mn.us>

Cc: Baker, Richard (DNR) < richard.baker@state.mn.us>; Joyal, Lisa (DNR) < lisa.joyal@state.mn.us>; Horton,

Becky (DNR) < becky.horton@state.mn.us>; Norris, Jane C (DNR) < jane.norris@state.mn.us>; JEFFREY

Stalberger < stally68@msn.com >; Melissa Barrett < melissa@kjolhaugenv.com > Subject: RE: Crosstown Rolling Acres, Ham Lake - Permit for Take (Butternut)

Hi Bridget,

Please let us know the status of the requested permit to take when determined. The schedule is getting pretty tight. Thanks.

Tom

From: Henning-Randa, Bridget (DNR) [mailto:Bridget.Henning-Randa@state.mn.us]

Sent: Friday, April 24, 2020 10:02 AM

To: Tom Collins

Cc: Baker, Richard (DNR); Joyal, Lisa (DNR); Horton, Becky (DNR); Norris, Jane C (DNR); JEFFREY Stalberger; Melissa

Barrett

Subject: RE: Crosstown Rolling Acres, Ham Lake - Permit for Take (Butternut)

Hello Mr. Collins,

Apologies for the delay. We have been going through staff changes, but I am currently working on this permit. I will be discussing this project and hope to have a decision to you next week. Our upper level management is largely consumed with the state's COVID response, but I will convey to them the urgency.

Thank you, Bridget

Bridget Henning-Randa, PhD

Minnesota Endangered Species Coordinator | Division of Ecological and Water Resources

Pronouns: she/her/hers

Minnesota Department of Natural Resources

500 Lafayette Rd., Box 25

St. Paul, MN 55155

Email: <u>bridget.henning-randa@state.mn.us</u> http://www.dnr.state.mn.us/eco/nhnrp





From: Tom Collins < TCollins@rfcengineering.com>

Sent: Friday, April 24, 2020 7:13 AM

To: Baker, Richard (DNR) < richard.baker@state.mn.us >; Joyal, Lisa (DNR) < lisa.joyal@state.mn.us >

Cc: Horton, Becky (DNR) < becky.horton@state.mn.us >; Norris, Jane C (DNR) < jane.norris@state.mn.us >;

JEFFREY Stalberger < stally68@msn.com>; Melissa Barrett < melissa@kjolhaugenv.com>

Subject: RE: Crosstown Rolling Acres, Ham Lake - Permit for Take (Butternut)

This message may be from an external email source.

Do not select links or open attachments unless verified. Report all suspicious emails to Minnesota IT Services Security Operations Center.

Hi Richard and Lisa,

I am the City Engineer for Ham Lake, and I am reaching out to request a determination on the butternut tree permit to take for the proposed Crosstown Rolling Acres project in Ham Lake. The application was submitted to the two of you on November 8, 2019. Richard's December 2nd email states that "The DNR received the subject Application for a Permit to Take from Melissa Barrett on 11/18/19. As stated on the DNR website, a permit will be issued or denied within 150 days of receipt." The application is beyond 150 days, so does that mean that the taking is approved? My understanding is that Melissa has not received a response to her email from last Friday. Becky and Jane – can you assist in this to determine the status of the permit? The developer's consultants need the determination to complete the design and the clock is ticking on being able to get approvals and construct this construction season.

Tom Collins

RFC Engineering, Inc. 13635 Johnson Street Ham Lake, Minnesota 55304

P: (763) 862-8000 F: (763) 862-8042 From: Melissa Barrett < melissa@kjolhaugenv.com >

Sent: Friday, April 17, 2020 11:56 AM

To: Baker, Richard (DNR) < richard.baker@state.mn.us >

Cc: JEFFREY Stalberger <stally68@msn.com>; Joyal, Lisa (DNR) lisa.joyal@state.mn.us>

Subject: RE: Crosstown Rolling Acres, Ham Lake - Permit for Take (Butternut)

Hello Richard,

I hope you are doing well. We believe that the 150 review period for this application has now past. Prior to investing too much time in plans and regulatory coordination, Jeff Stallberger would like to know the results of DNR review of this site and proposed taking of Butternut trees.

Are you able to provide an update on review of the application? Thank you.

Melissa Lauterbach-Barrett Kjolhaug Environmental Services

2500 Shadywood Road, Suite 130

Orono, MN 55331 Office: 952-401-8757 Cell: 952-388-3752

From: Baker, Richard (DNR) < richard.baker@state.mn.us>

Sent: Thursday, January 23, 2020 12:36 PM
To: Melissa Barrett < melissa@kjolhaugenv.com >

Cc: JEFFREY Stalberger < stally68@msn.com; Joyal, Lisa (DNR) < lisa.joyal@state.mn.us>

Subject: RE: Crosstown Rolling Acres, Ham Lake - Permit for Take (Butternut)

Thanks for your email, Melissa.

I have yet to review the Crosstown Rolling Acres permit application.

Rich Baker

Richard J. Baker

Minnesota Endangered Species Coordinator | Division of Ecological and Water Resources

Minnesota Department of Natural Resources

500 Lafayette Rd., Box 25 St. Paul, MN 55155 Phone: 651-259-5073

Fax: 651-296-1811

Email: <u>richard.baker@state.mn.us</u> http://www.dnr.state.mn.us/eco/nhnrp





From: Melissa Barrett < melissa@kjolhaugenv.com > Sent: Wednesday, January 22, 2020 2:06 PM

To: Baker, Richard (DNR) < richard.baker@state.mn.us >; JEFFREY Stalberger < stally68@msn.com >; Joyal, Lisa (DNR)

sa.joyal@state.mn.us>

Subject: RE: Crosstown Rolling Acres, Ham Lake - Permit for Take (Butternut)

Richard,

I just wanted to check in to see if you or Lisa have been able to review this application, and to see if you had any questions or comments, or if you think additional information will be required.

Thank you.

Melissa Barrett

Certified Wetland Delineator, Licensed Soil Scientist Kjolhaug Environmental Services, Inc. 2500 Shadywood Road, Suite 130 Orono, MN 55331

Office: (952) 401-8757 Cell: (952) 388-3752

From: Baker, Richard (DNR) < richard.baker@state.mn.us>

Sent: Monday, December 2, 2019 10:25 AM

To: JEFFREY Stalberger < stally68@msn.com; Melissa Barrett < melissa@kjolhaugenv.com; Joyal, Lisa (DNR)

lisa.joyal@state.mn.us>

Subject: RE: Crosstown Rolling Acres, Ham Lake - Permit for Take (Butternut)

Mr. Stalberger,

The DNR received the subject Application for a Permit to Take from Melissa Barrett on 11/18/19. As stated on the DNR website, a permit will be issued or denied within 150 days of receipt.

Please get back to me with any questions or concerns.

Rich Baker

Richard J. Baker

Minnesota Endangered Species Coordinator | Division of Ecological and Water Resources

Minnesota Department of Natural Resources

500 Lafayette Rd., Box 25 St. Paul, MN 55155 Phone: 651-259-5073 Fax: 651-296-1811

Email: richard.baker@state.mn.us

http://www.dnr.state.mn.us/eco/nhnrp





From: JEFFREY Stalberger [mailto:stally68@msn.com]

Sent: Tuesday, November 26, 2019 1:11 PM

To: Melissa Barrett < melissa@kjolhaugenv.com >; Baker, Richard (DNR) < melissa@kjolhaugenv.com >; Joyal, Lisa (DNR)

sa.joyal@state.mn.us>

Subject: Re: Crosstown Rolling Acres, Ham Lake - Permit for Take (Butternut)

Hi Richard and Lisa, I wanted to check to see how things are going on the below taking permit in the Ham Lake subdivision. If its possible can you give me an idea what we would be looking at for timing on this?

Thank you

Happy Thanksgiving

Jeff Stalberer

From: Melissa Barrett < melissa@kjolhaugenv.com >

Sent: Friday, November 8, 2019 10:54 PM

To: Baker, Richard (DNR) < richard.baker@state.mn.us >; Joyal, Lisa (DNR) < lisa.joyal@state.mn.us >

Cc: Stally68@msn.com <Stally68@msn.com>; Mark Kjolhaug <mkjol@kjolhaugenv.com>

Subject: Crosstown Rolling Acres, Ham Lake - Permit for Take (Butternut)

Richard and Lisa,

Attached is an application to take butternut trees with the construction of residential project in Ham Lake.

Also Attached is MNR's GIS data for the observed trees.

I will send a hard copy of this application to Richard in the mail, as Scott Millburn indicated that some emails may not be getting to your inbox.

Thank you.

Melissa Barrett

Certified Wetland Delineator, Licensed Soil Scientist Kjolhaug Environmental Services, Inc. 2500 Shadywood Road, Suite 130 Orono, MN 55331

Office: (952) 401-8757 Cell: (952) 388-3752

TITLE SHEET

~of~ CROSSTOWN ROLLING ACRES THIRD ADDITION

~for~ CROSSTOWN DEVELOPMENT, LLC 17404 WARD LAKE DRIVE NW ANDOVER, MN 55304 (612) 799-1471

PONDING CALCULATIONS AND STORM SEWER DESIGN BY PLOWE ENGINEERING, INC. ENGINEERING, INC. 6776 LAKE DRIVE SUITE 110 LINO LAKES, MN 55014 PHONE: (651) 361-8210 FAX: (651) 361-8701

I HEREBY CERTIFY THAT THIS PLAN 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.

DATE: 03.31.21 LIC. NO. 43963 I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly Registered Land Surveyor under the laws of the State of Minnesota.

1 11-2-20 CTTY & CCWD REVIEW COMME
2 1-13-21 CTTY & CCWD REVIEW COMME
3 2-26-21 CITY & CCWD REVIEW COMME
4 3-26-21 CTTY COMMENTS
5 3-31-21 CTTY COMMENTS

DESCRIPTION

___ License No. 41578 Date: 3/31/21

VICINITY MAP

PART OF SEC. 06, TWP. 32, RNG. 23



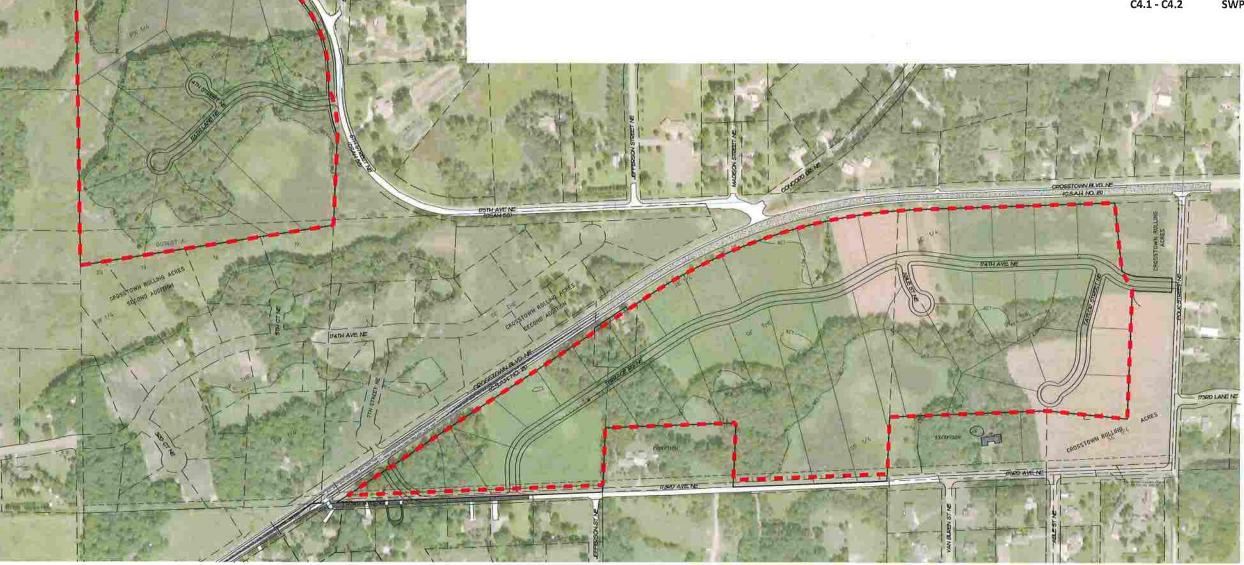
ANOKA COUNTY, MINNESOTA

SHEET INDEX

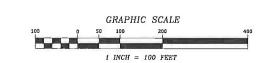
TITLE SHEET
PRELIMINARY PLAT T1 1-3 **GRADING PLAN** 4-10 11-17 LIVABILITY PLAN LIVABILITY CHART 18-20 C1.1 - C1.9 **UTILITY PLANS - PLAN/PROFILE**

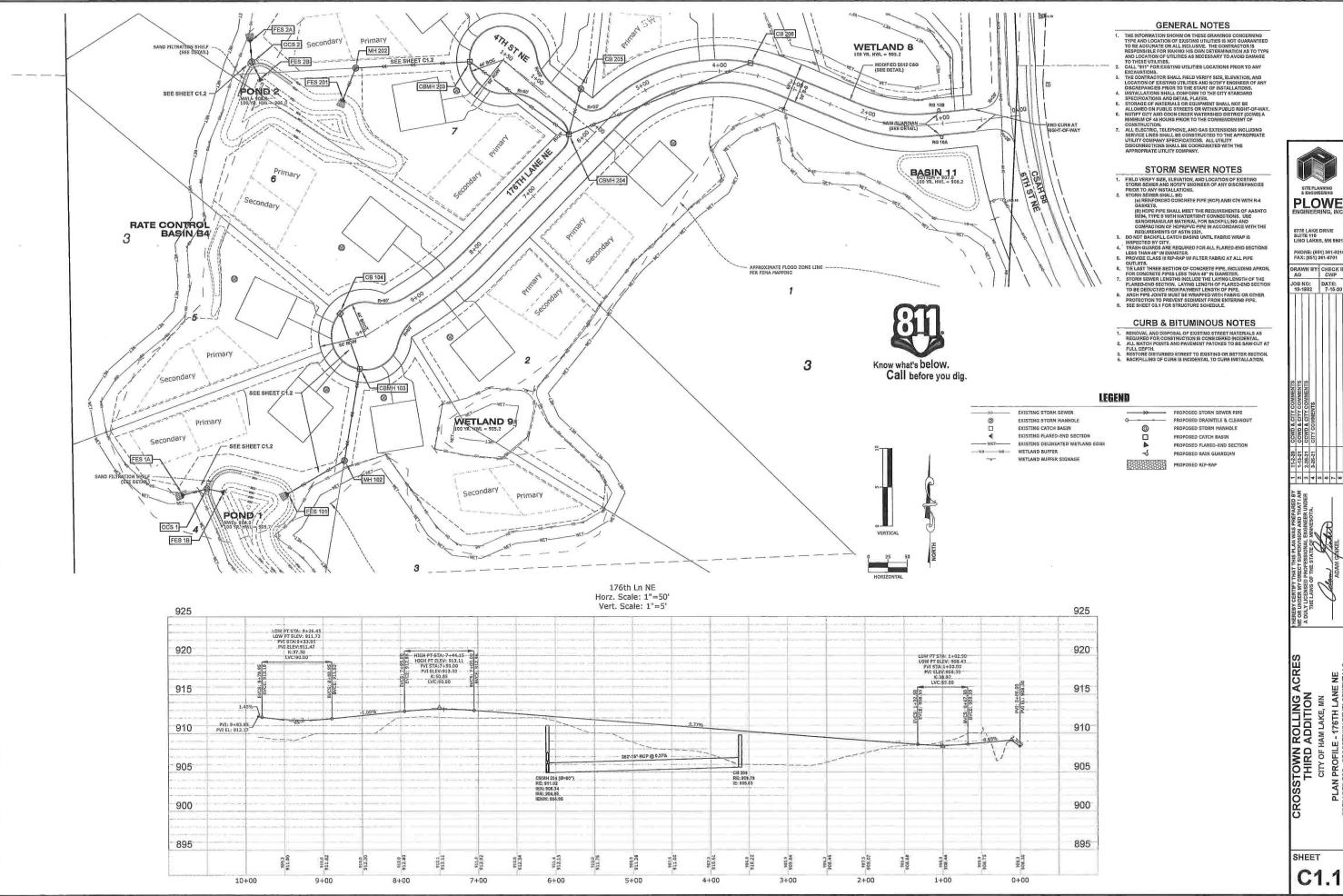
C2.1 - C2.3 PRELIMINARY TURN LANE DETAILS

C3.1 - C3.5 **DETAILS** C4.1 - C4.2 **SWPPP**



E.G. RUD & SONS, INC. Professional Land Surveyors 6776 Lake Drive NE, Suite 110 Lino Lakes, MN 55014 Tel. (651) 361-8200 Fax (651) 361-8701





PLOWE

6776 LAKE DRIVE SUITE 110 LINO LAKES, MN 5501

JOB NO: DATE: 7-16-20

CROSSTOWN ROLLING ACRES
THIRD ADDITION
CITY OF HAM LAKE, MN
PLAN PROFILE - 176TH LANE NE
PREPARED FOR: CROSSTOWN DEPLOPMENT LLC



GENERAL NOTES

- GENERAL NOTES

 1. THE INFORMATION SHOWN ON THESE PRANINGS CONCERNING
 TYPE AND LOCATION OF EXISTING UTILITIES IS NOT GUARANTEE
 1. THE AND LOCATION OF EXISTING UTILITIES IS NOT GUARANTEE
 1. TO BE ACCUPATE OR ALL INCLUSIVE. THE CONTRACTOR IS
 1. RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE
 1. AND LOCATION OF UTILITIES AS NECESSARY TO AVOID DAMAGE
 1. TO THESE UTILITIES.
 1. THE CONTRACTOR SHALL FIELD VERIFY SIZE, ELEVATION, AND
 1. LOCATION OF EXISTING UTILITIES AND NOTEY PENINERE OF ANY
 DISCREPANCIES PRIOR TO THE START OF INSTALLATIONS.
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 DISCREPANCIES PRIOR TO THE START OF INSTALLATIONS.
 2. PROPERTY OF THE START OF INSTALLATIONS.
 3. NOTEY CITY AND CONFORM TO THE PRIOR TOTY SHALL NOT BE
 1. ALLOWED ON PUBLIC STERE FOR UTILITY DUBLIC RIGHT-OF-WAY.
 4. NOTEY CITY AND COON CREEK WATERSHED DISTROT (COWD) A
 MINIMUM OF AS HOURS PRIOR TO THE COMMENCEMENT OF
 CONSTRUCTION.
 5. NOTEY CITY AND COON CREEK WATERSHED DISTROT (COWD) A
 MINIMUM OF AS HOURS PRIOR TO THE COMMENCEMENT OF
 CONSTRUCTION.
 5. SEN'DE LINES SHALL BE CONSTRUCTED TO THE APPROPRIATE
 UTILITY COMPANY SPECIFICATIONS, ALL UTILITY
 DISCONMENCIONS SHALL BE COORDINATED WITH THE
 APPROPRIATE UTILITY COMPANY.

STORM SEWER NOTES

- STORM SEWER NOTES

 1. FIELD VERIFY SIZE, ELEVATION, AND LOCATION OF EXISTING STORM SEVER AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY INSTALLATIONS.

 2. STORM SEVER SHALD SIZE PIPE (RCP) ANSI C75 WITH R-4 OWNERS.

 (a) REINFORCED CONCRETE PIPE (RCP) ANSI C75 WITH R-4 OWNERS.

 OWNERS.

 OWNERS AND SHALL MEET THE REQUIREMENTS OF AASHTO MAYS, TYPES WITH WATERTIGHT CONNECTIONS. USE SANDIGRANULAR MATERIAL FOR BACKFILLING AND COMPACTION OF HODEPPUS PIPE IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM 3231.

 3. DO NOT BACKFILL CATCH BASINS UNTIL FABRIC WRAP IS INSPECTED BY GITT.

 TRASH GUARDS ARE REQUIRED FOR ALL FLARED-END SECTIONS OF PROVIDE CLASS IN RIP-RAP WY FILTER FABRIC AT ALL PIPE OUTLETS.

 THE LAST THREE SECTION OF CONCRETE PIPE, INCLUDING APRON, FOR CONCRETE PIPES LESS THAN 45" IN DIAMETER.

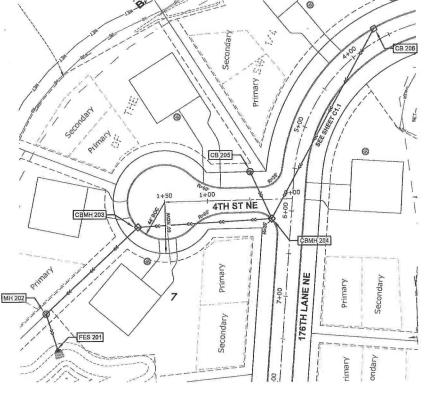
 2. STORM SEWER LEWSTIS INCLUDE THE LAYING LEERTH OF THE FLARED-END SECTION TO BE OBDUCTED FROM PAYMENT LEMPTH OF PIPE.

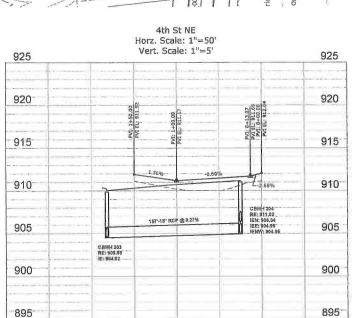
 3. ARCH HIPE JOINTS MUST BE WARPPED WITH FABRIC OR OTHER FLARED-END SECTION.

 4. SEES SHEET C3.1 FOR STRUCTURE SCHEDULE.

CURB & BITUMINOUS NOTES

- REMOVAL AND DISPOSAL OF EXISTING STREET MATERIALS AS REQUIRED FOR CONSTRUCTIONS IS CONSIDERED HIGHOSTAL.
 ALL MATCH POINTS AND PAVEMENT PATCHES TO BE SAW-CUT AT FULL DEPT.
 RESTORE DISTURBED STREET TO SUSTING OR BETTER SECTION.
 BACKFILLING OF CURB IS INCIDENTAL TO CURB INSTALLATION.

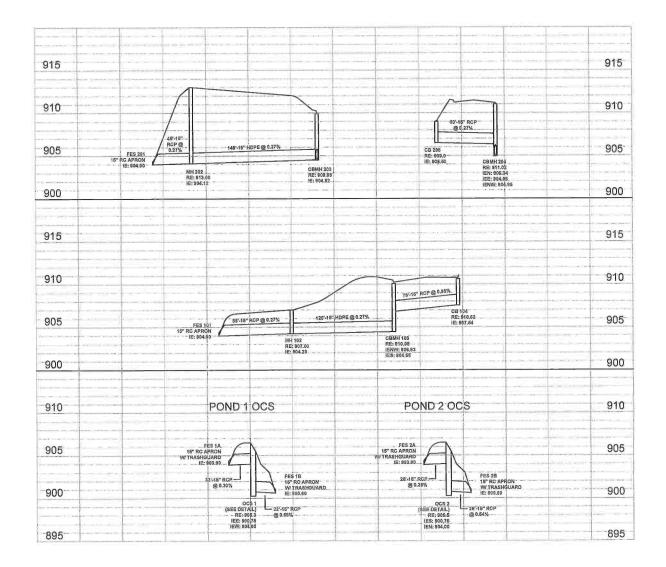




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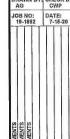
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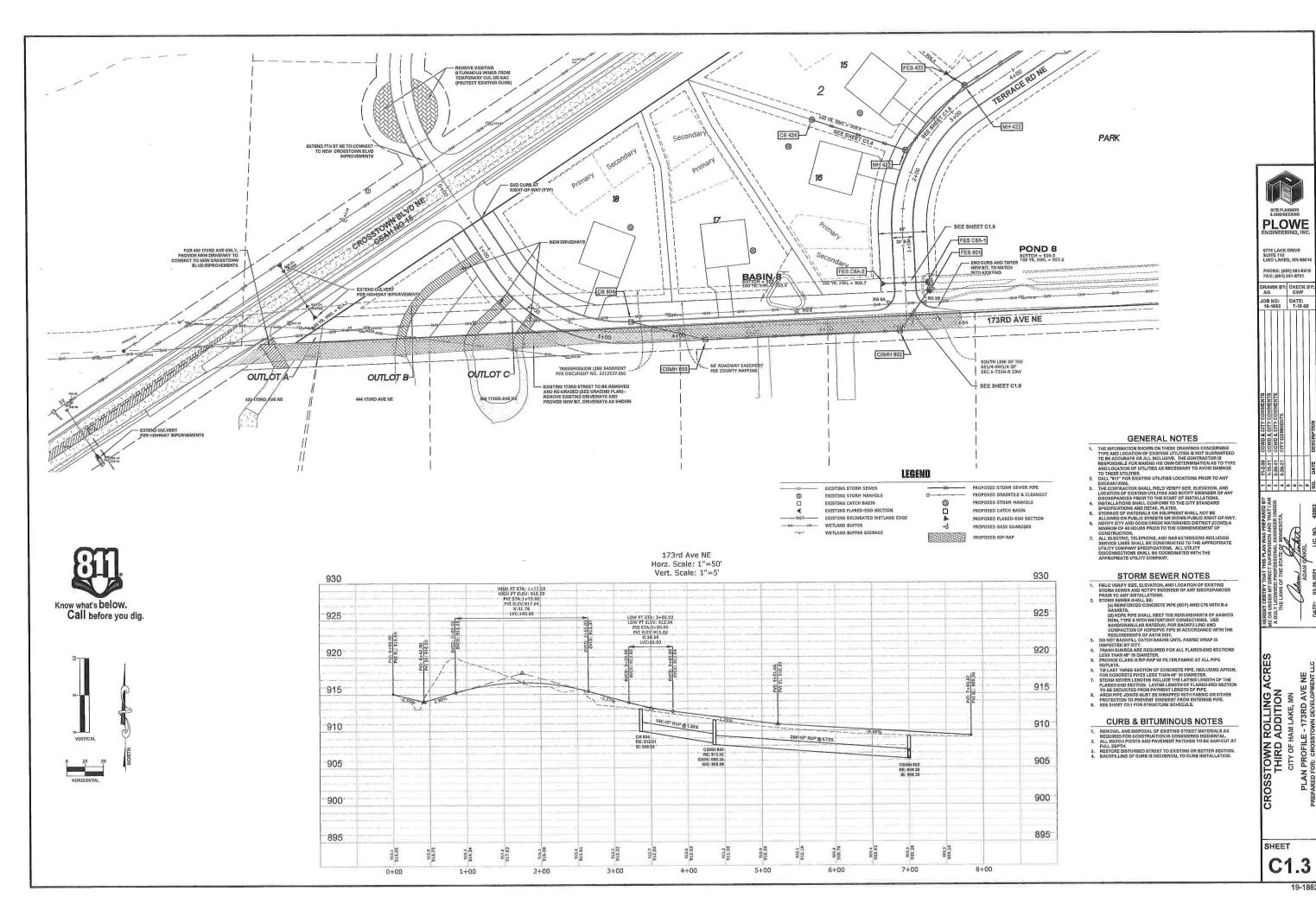


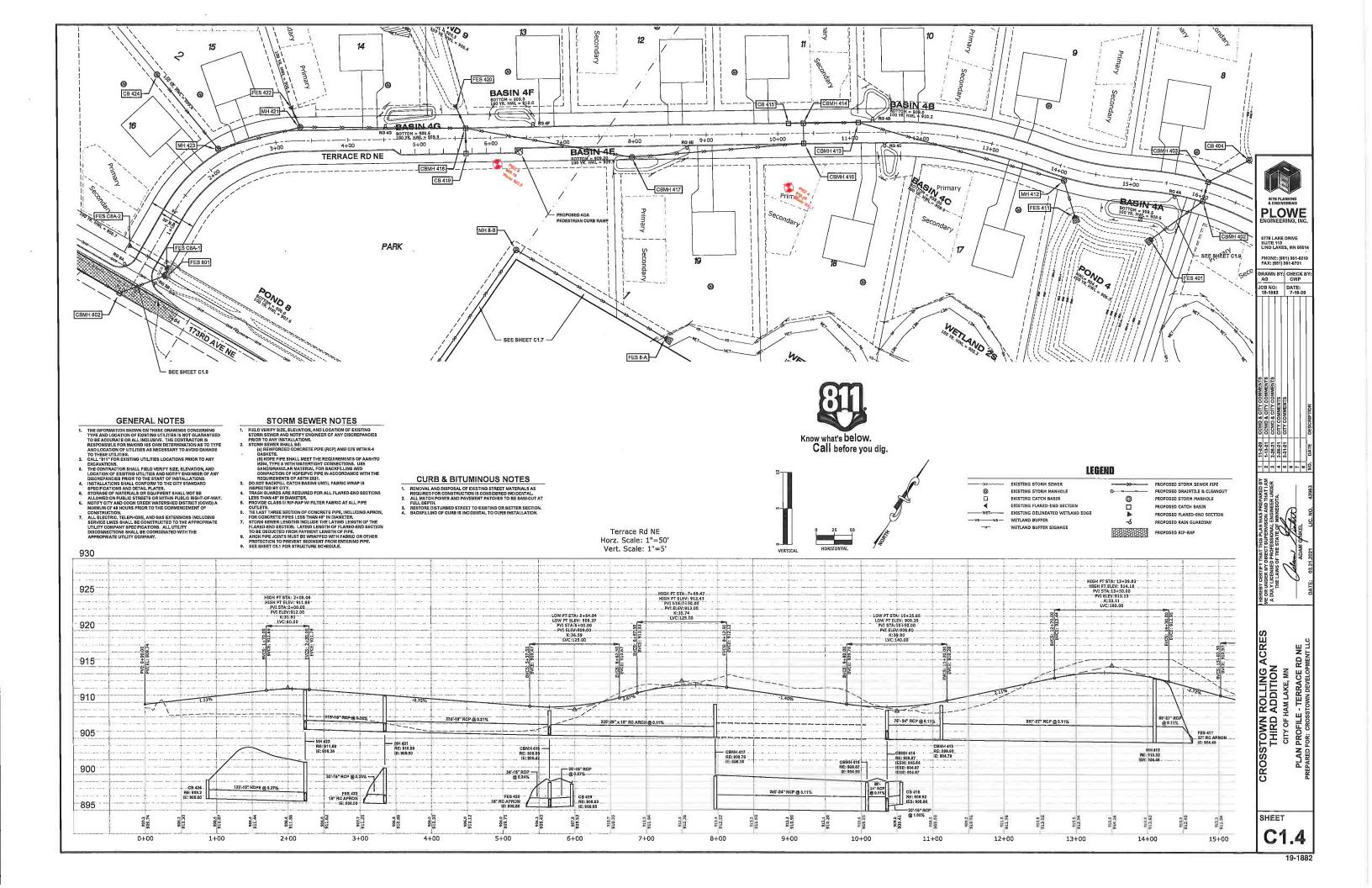
PHONE: (651) 361-8210 FAX: (651) 361-8701

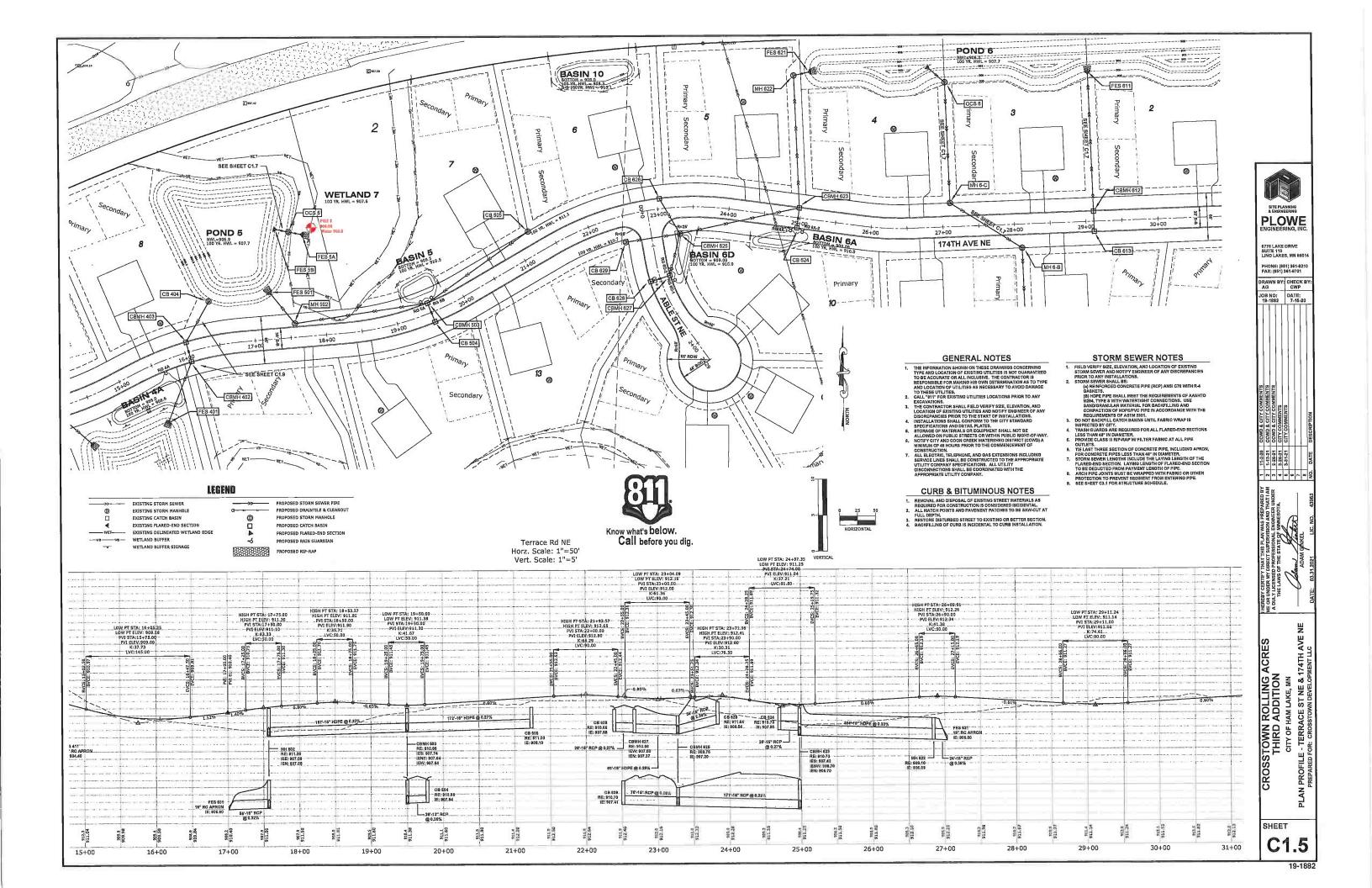


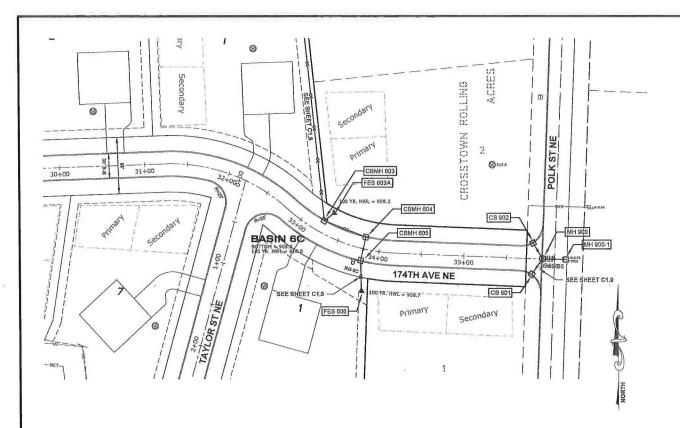
CROSSTOWN ROLLING ACRES
THIRD ADDITION
CITY OF HAM LAKE, MN
PLAN PROFILE - 4TH ST NE
PREPARED FOR: CROSSTOWN DEVELOPMENT LLC

SHEET









Know what's below.
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31+00

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VERTICAL

GENERAL NOTES

- THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF EXISTING UTILITIES IS NOT GUARANT EED TO BE ACQUARTE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO I TYPE AND LOCATION OF UTILITIES AS NECESSARY TO AVOID DAMAGE

- CALL "81" FOR EXISTING UTILITIES LOCATIONS PRIOR TO ANY EXCAVATIONS.
 THE CONTRACTOR SHALL FIELD VERIFY SIZE, ELEVATION, AND LOCATION OF EXISTING UTILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO THE START OF INSTALLATIONS.
 STORAGE OF MATERIALS OR EQUIPMENT SHALL NOT BE ALLOWED ON PUBLIC STREETS OR WITHIN PUBLIC RIGHT-OF-WAY NOTIFY CITY AND COOK GREEK WATERSHED DISTRICT (COWD) A MINIMUM OF 84 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
 ALL ELECTRIC, TELEPHONE, AND GAS EXTENSIONS INCLUDING ALL ELECTRIC, TELEPHONE, AND GAS EXTENSIONS INCLUDING UTILITY COMPANY SPECIFICATIONS. ALL UTILITY COMPANY SPECIFICATIONS. ALL UTILITY COMPANY SPECIFICATIONS. SALL DISCONMENTIONS SHALL BE CORDINATED TO THE COMMENCED WITH THE APPROPRIATE DISCONMENTIONS SHALL BE CORDINATED WITH THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS.

STORM SEWER NOTES

- STORM SEWER NOTES

 1. FIELD VERIEY SIZE, ELEVATION, AND LOCATION OF EXISTING STORM SEWER AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY INSTALLATIONS.

 2. STORM SEWER SHALL BE:

 (a) REINFONCED CONCRETE PIPE (RCP) ANSI C76 WITH R-4
 (b) REINFONCED CONCRETE PIPE (RCP) ANSI C76 WITH R-4
 (b) SIADE PIPE SHALL INEET THE RECUIREMENTS OF AASHTO M234. TYPE S WITH WATERTIGHT CONNECTIONS. USE SANDIGRANULAR MATERIAL FOR BACKFULING AND COMPACTION OF HOPE/PVC PIPE IN ACCORDANCE WITH THE RECUIREMENTS OF ASTAN 231.

 3. DO NOT BACKFULL CATCH BASINS UNTIL FABRIC WRAP IS INSPECTED BY C1TY.

 4. TRASH GUIARDS ARE REQUIRED FOR ALL FLARED-END SECTIONS LESS THAM 4"IN DIAMETER.

 5. PROVIDE CLASS IN IRPRAPA WI FILTER FABRIC AT ALL PIPE OUTLIETS.

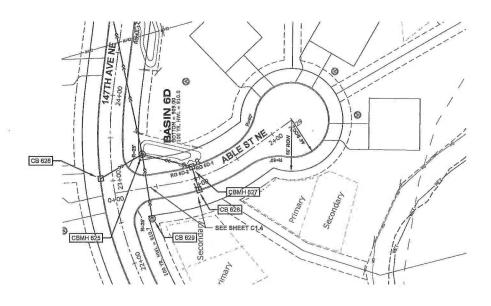
- 6. PROVIDE CLASS III. RIP-RAP WFILTER FABRIC AT ALL PIPE OUTLETS.
 6. TIE LAST THREE SECTION OF CONCRETE PIPE, INCLUDING APRON, FOR CONCRETE PIPES LESS THAN 48" IN DIAMETER.
 7. STORM SEYER LEIGHTS INCLUDE THE LAYING LENGTH OF THE FLARED-END SECTION. THAN LENGTH OF FLARED-END SECTION TO BE DISPUSITED FROM PAYMENT LENGTH OF PIPE.

 8. ARCH PIPE JOINTS INLIST SE WARPED WITH FABRIC OR OTHER PROTECTION TO PREVENT SECRIFICATION.
 9. SEE SHEET CAT FOR STRUCTURE SOCIEDAD.

CURB & BITUMINOUS NOTES

- REMOVAL AND DISPOSAL OF EXISTING STREET MATERIALS AS REQUIRED FOR CONSTRUCTION IS CONSIDERED INCIDENTAL.
 ALL MATCH POINTS AND PAVEMENT PATCHES TO BE SAW-QUT AT FULL DEPTH.
 RESTORE DISTURBED STREET TO EXISTING OR BETTER SECTION.
 BACKFILLING OF CURB IS INCIDENTAL TO CURB INSTALLATION.

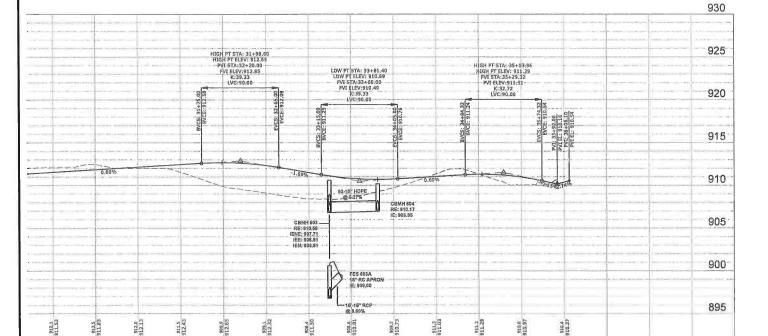








and come and contract of the								
>>	EXISTING STORM SEWER		PROPOSED STORM SEWER PIPE					
@	EXISTING STORM MANHOLE	O-4>	PROPOSED DRAINTILE & CLEANOUT					
	EXISTING CATCH BASIN	0	PROPOSED STORM MANHOLE					
< .	EXISTING FLARED-END SECTION		PROPOSED CATCH BASIN					
WET	EXISTING DELINEATED WETLAND EDGE	De.	PROPOSED FLARED-END SECTION					
	WETLAND BUFFER	~	PROPOSED RAIN GUARDIAN					
	WETLAND BUFFER SIGNAGE		PROPOSED RIP-RAP					

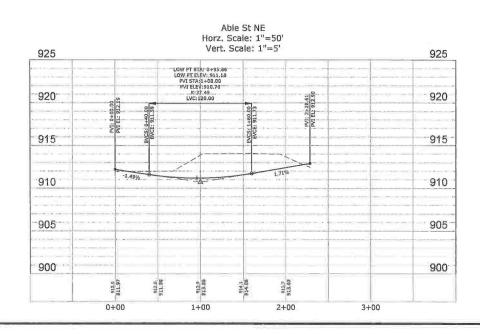


34+00

35+00

36+00

37+00



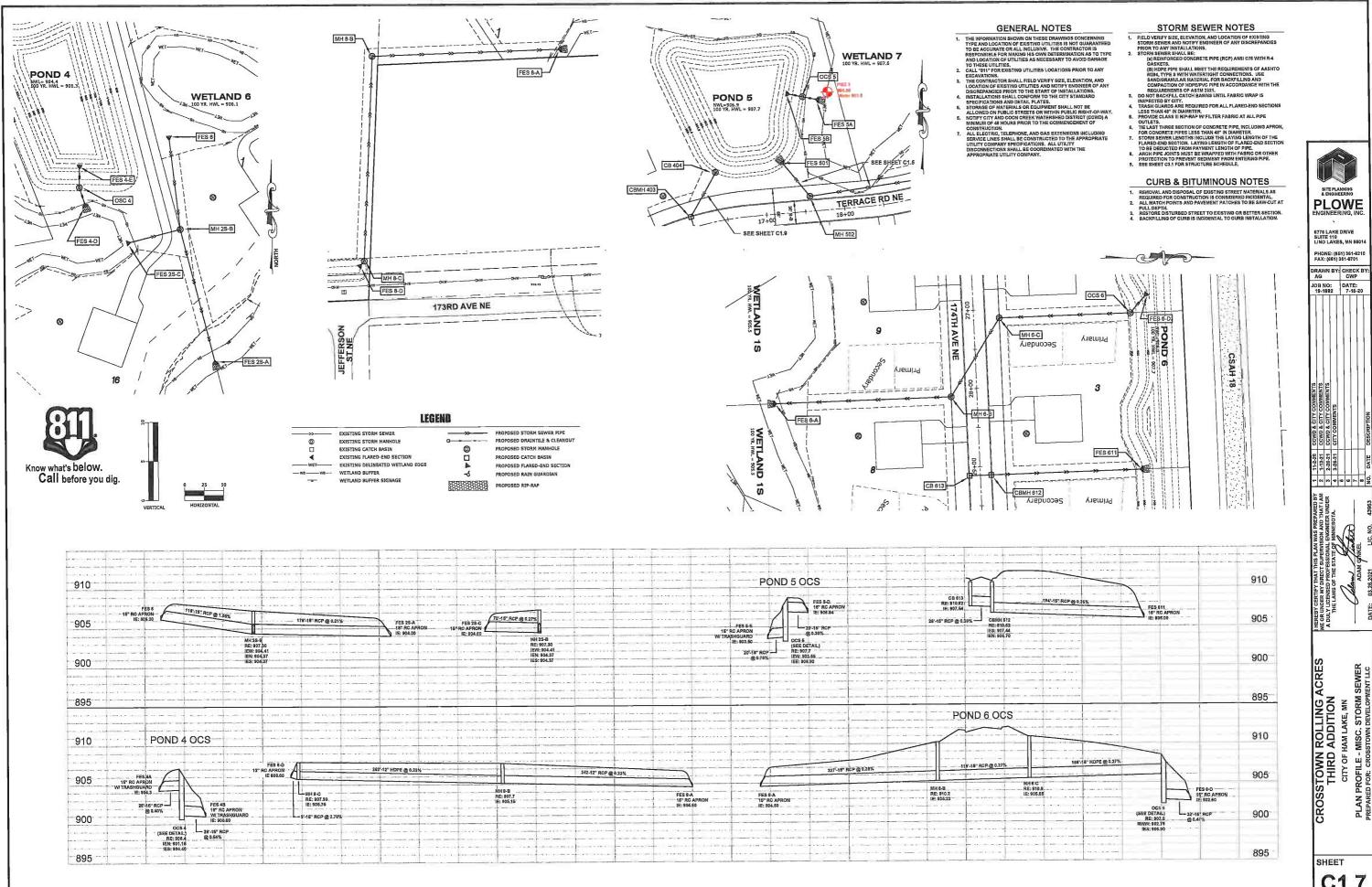
PLOWE 6776 LAKE DRIVE SUITE 110 LINO LAKES, MN 6501

PHONE: (651) 361-8210 FAX: (661) 361-8701

CROSSTOWN ROLLING ACRES
THIRD ADDITION
CITY OF HAM LAKE, MN
PLAN PROFILE - 174TH ST NE & ABLE ST NE
PREPARED FOR: GROSSTOWN DEVELOPMENT LLC

PLAN PROF

SHEET



PLOWE 6776 LAKE DRIVE SUITE 110 LIND LAKES, MN 5501 PHONE: (651) 361-8210 FAX: (651) 361-8701 DRAWN BY: CHECK BY JOB NO: DATE: 19-1882 7-16-20 2 1-13-21 (3 2-26-21 (4 3-26-21 (6



CBMH 707

200.YR. HWL = 907.6

FES 706

Primary

secon

3

MH 711

FES 712

Secondar

@

primary

- CBMH 705





VERTICAL



GENERAL NOTES

- ERCANATIONS.
 THE CONTRACTOR SHALL PIELD VERIFY SIZE, ELEVATION, AND
 LOCATION OF ENSITING UTILITIES AND NOTIFY ENGINEER OF ANY
 DISCREPANCIES PRICE TO THE START OF INSTALLATIONS.
 INSTALLATIONS SHALL CONFORM TO THE CITY STANDARD
 SPECIFICATIONS AND DETAIL PLATES.
 STOKAGE OF MATERIALS OR EQUIPMENT SHALL NOT BE
 ALLOWED ON PIBLIC STREETS OR WITHIN PUBLIC RIGHT-OF-WAR
 MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF
 MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF

- MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ALL ELECTRIC, TELEPHONE, AND GAS EXTENSIONS INCLUDING SERVICE LINES SHALL BE CONSTRUCTED TO THE APPROPRIAT UTILITY COMPANY SPECIFICATIONS. ALL UTILITY OUTSONNECTIONS SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY.

STORM SEWER NOTES

- FIELD VERIFY SEE, ELEVATION, AND LOCATION OF EXISTING STORM SEWER AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY INSTALLATIONS.

 STORM SEWER SHALL BE:

 (A REINFORCED CONCRETE PIPE (RCP) ANSI C76 WITH R4 CASKETS.

 (B) HOPE PIPE SHALL MEET THE REQUIREMENTS OF AASHTO MAY 1, TYPE S WITH WATERTIGHT CONNECTIONS. USE SANGERAULURA MATERIAL FOR BACKETLING AND COMPACTION OF PIPE PIPE IN ACCORDANCE WITH THE REQUIREMENTS OF AST
- COMPACTION OF HOPE/PVC PIPE IN ACCORDANCE WITH THE REQUIREMENTS OF ASTIN 221.

 DO NOT BACKFILL CATCH BASINS UNTIL FABRIC WRAP IS INSPECTED BY CITY.

 TRASH GUARDS ARE REQUIRED FOR ALL FLARED-END SECTIONS LESS THAN 48" IN DIAMETER.

 PROVIDE CLASS III RIP-RAP W/ FILTER FABRIC AT ALL PIPE

5. PROVIDE CLASS III RIP-RAP W FILTER RABNUM AT ALL FIFE OUTLETS. 6. TIE LAST THREE SECTION OF CONCRETE PIPE, INCLUDING APRON, FOR CONCRETE PIPES, LESS THAN 48° IN DIAMETER. 7. STORM SEWER LENGTHS INCLUDE THE LAYING LENGTH OF THE TOTAL PLANT OF THE CONCRETE PIPES. LESS THAN 48° IN DIAMETER. 7. STORM SEWER LENGTHS INCLUDE THE LAYING LENGTH OF THE CONCRETE PIPES. 8. ARCH PIPE JOINTS MUST BE WRAPPED WITH FABRIC OR OTHER PROTECTION TO PREVENT SECIMENT FROM ENTREINS PIPE. 9. SEE SHEET C3.1 FOR STRUCTURE SCHEDULE.

CURB & BITUMINOUS NOTES

- REMOVAL AND DISPOSAL OF EXISTING STREET MATERIALS AS REQUIRED FOR CONSTRUCTION IS CONSIDERED INCIDENTAL.
 ALL MATCH POINTS AND PAVEMENT PATCHES TO BE SAW-CUT AT FULL DEPTH.
 RESTORE DISTURBED STREET TO EXISTING OR BETTER SECTION.
 BACKFILLING OF CURB IS INCIDENTAL TO GURB INSTALLATION.

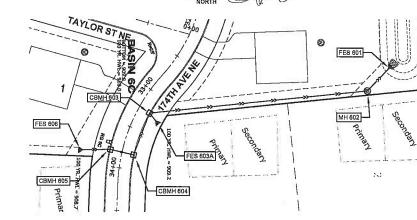
LEGEND

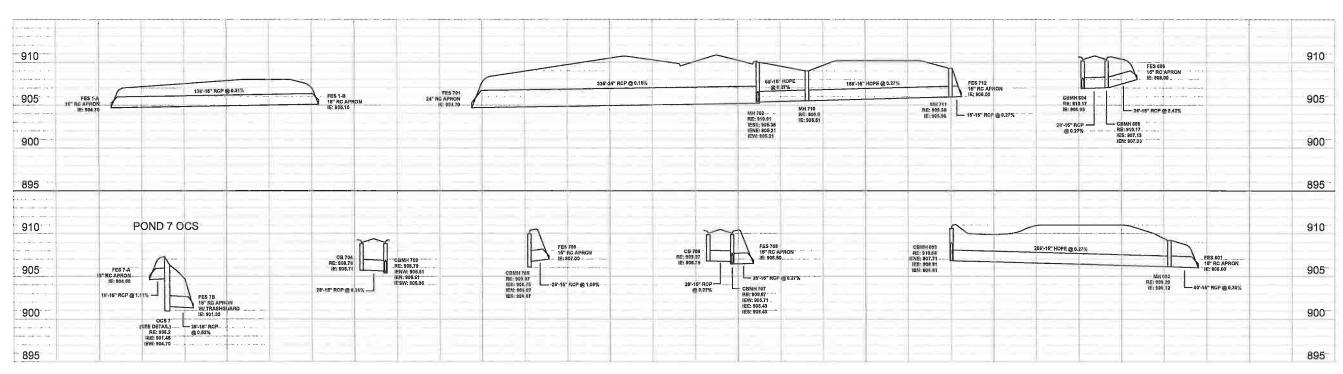
	200
>>	EXISTING STORM SEWER
(D)	EXISTING STORM MANHOLE
	EXISTING CATCH BASIN
€	EXISTING FLARED-END SECTION
	EXISTING DELINEATED WETLAND EDGE
wa	WETLAND BUFFER
-	WETLAND BUFFER SIGNAGE



PROPOSED STORM MANHOLE PROPOSED CATCH BASIN PROPOSED FLARED-END SECTION PROPOSED RAIN GUARDIAN PROPOSED RIP-RAP

NORTH O TAYLORSTN FES 601 FES 606 CBMH 605 CBMH 604





BASIN 7

Secondary

909.55 FRODP41578 primary

CB 704

MH 710

Secondary

WETLAND 1S

WETLAND 1S

Primary

MH 701

' Secondary

Secondary

FES 1-B

POND 7

EXIST.

FES 1-A

FES 7A

OCS 7

FES 7B



PLOWE

6776 LAKE DRIVE SUITE 110 LINO LAKES, MN 6501-

PHONE: (651) 361-8219 FAX: (651) 351-8701 DRAWN BY: CHECK BY AG CWP

JOB NO: DATE: 19-1882 7-16-20

CROSSTOWN ROLLING ACRES
THIRD ADDITION
CITY OF HAM LAKE, MN
PLAN PROFILE - MISC STORM SEWER
PREPARED FOR: CROSSTOWN DEVELOPMENT LLC

SHEET

GENERAL NOTES THE INFORMATION SHOWN ON THESE DRAWNAGS CONCERNING TYPE AND LOCATION OF EXISTING UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS REPONSIBLE FOR MARING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UTILITIES AS NECESSARY TO AVOID DAMAGE

- O THESE UTILITIES,
 ALL "811" FOR EXISTING UTILITIES LOCATIONS PRIOR TO ANY

- TO THESE UNITIES.

 OCALL "SIY" FOR EXISTING UTILITIES LOCATIONS PRIOR TO ANY CALL "SIY" FOR EXISTING UTILITIES LOCATIONS PRIOR TO ANY CALL "SIY" FOR EXISTING UTILITIES AND NOTIFY EMPLEMENT OF ANY DISCREPANCIES PRIOR TO THE START OF INSTALLATIONS. INSTALLATIONS SHALL CONFORM TO THE CITY STANDARD SPECIFICATIONS AND DETAIL PLATES.

 STORAGE OF MATERIALS OR GUIDMENT SHALL NOT BE ALLOWED ON PUBLIC STREETS OR WITHIN PUBLIC RIGHT-OF-WAY. NOTIFY CITY AND GOOD FOR EAST WITHIN PUBLIC RIGHT-OF-WAY. NOTIFY CITY AND GOOD FOR EAST WITHIN PUBLIC RIGHT-OF-WAY. OF THE CONTRIBUTION.

 ALL ELECTRIC, TELEPHONE, AND GAS EXTENSIONS INCULDING SERVICE LINES SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY UDISCONNECTIONS SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISCONNECTIONS SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISCONNECTIONS SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY COMPANY SPECIFICATIONS.

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- 2. STORM SEWER SHALL BE:

 (a) REINFORCED CONCRETE PIPE (RCP) ANSI OTS WITH RA
 (b) HOPE PIPE SHALL MEET THE REQUIREMENTS OF AASHTO

 (c) HOPE PIPE SHALL MEET THE REQUIREMENTS OF AASHTO

 (d) HOPE PIPE SHALL MEET THE REQUIREMENTS OF AASHTO

 (d) HOPE PIPE SHALL MEET SHALL FOR BACKFILLING AND

 COMPACTION OF HOPE PIPE IN ACCORDANCE WITH THE

 COMPACTION OF HOPE PIPE IN ACCORDANCE WITH THE

 LISS THAN SHALL CATHOL SHASHIS UNTIL FABRIC WITH THE

 LISS THAN SHI DIAMSTER

 PROVIDE CLASS IR RIPPARP WIFILTER FABRIC AT ALL PIPE

 CUITLETS.

 THE LAST THREE SECTION OF CONCRETE PIPE, INCLUDING APRON,

 FOR CONCRETE PIPES LESS THAN 48" IN AMMETER.

 PROVIDE CLASS IR RIPPARP WIFILTER FABRIC AT ALL PIPE

 CUITLETS.

 THE LAST THREE SECTION OF CONCRETE PIPE, INCLUDING APRON,

 FOR CONCRETE PIPES LESS THAN 48" IN AMMETER.

 FOR CONCRETE PIPES LESS THAN 48" IN AMMETER.

 TO BE DEDUCTED FROM PAYMENT LENGTH OF PIPE.

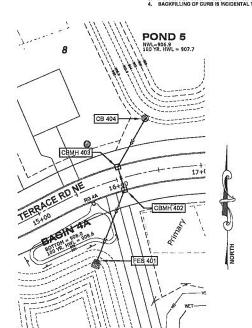
 ARCH PIPE JOINTS MUST BE WEAPPED WITH FABRIC OR OTHER

 PROTECTION TO PREVENT SCOMENT FROM ENTERINO PIPE.

 SEE SHEET C3.1 FOR STRUCTURE SCHEDULE.

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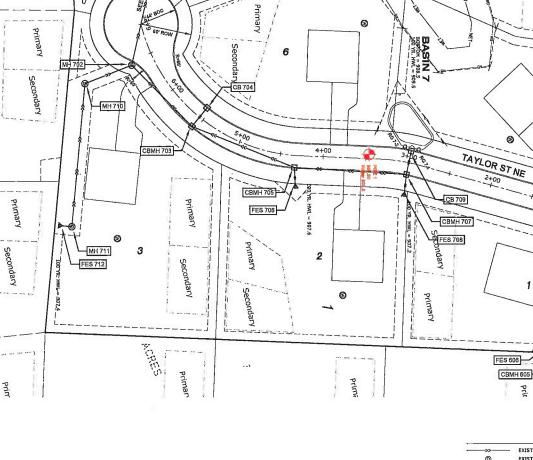


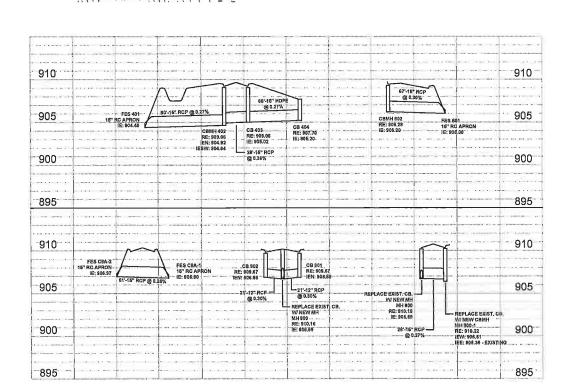


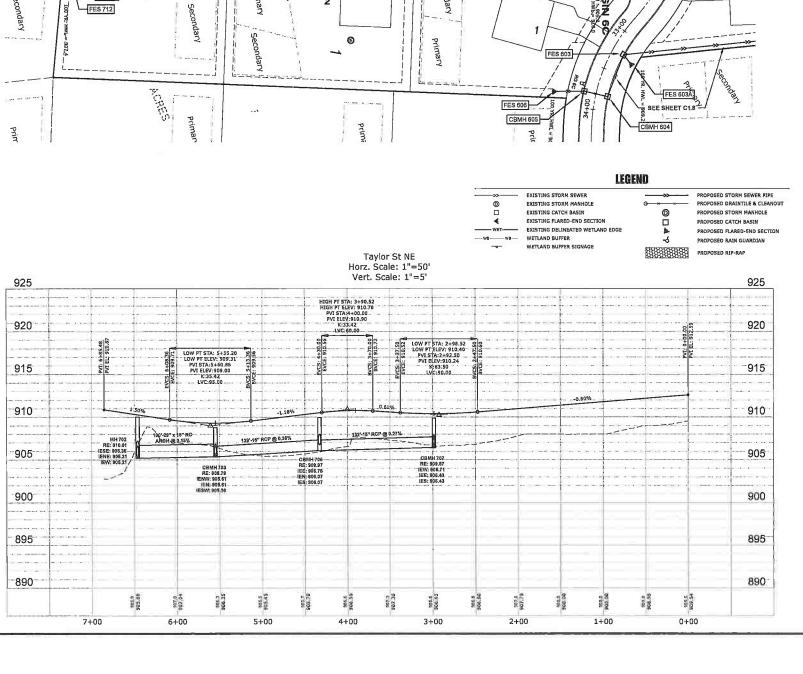












SS06 = 7%

15

PLOWE 6776 LAKE DRIVE SUITE 110 LINO LAKES, MN 660 PHONE: (661) 361-821(FAX: (661) 361-8701 DRAWN BY: CHECK B AG CWP JOB NO: DATE: 19-1882 7-16-20

CB 613

CBMH 612

SEE SHEET C1.7

(3)

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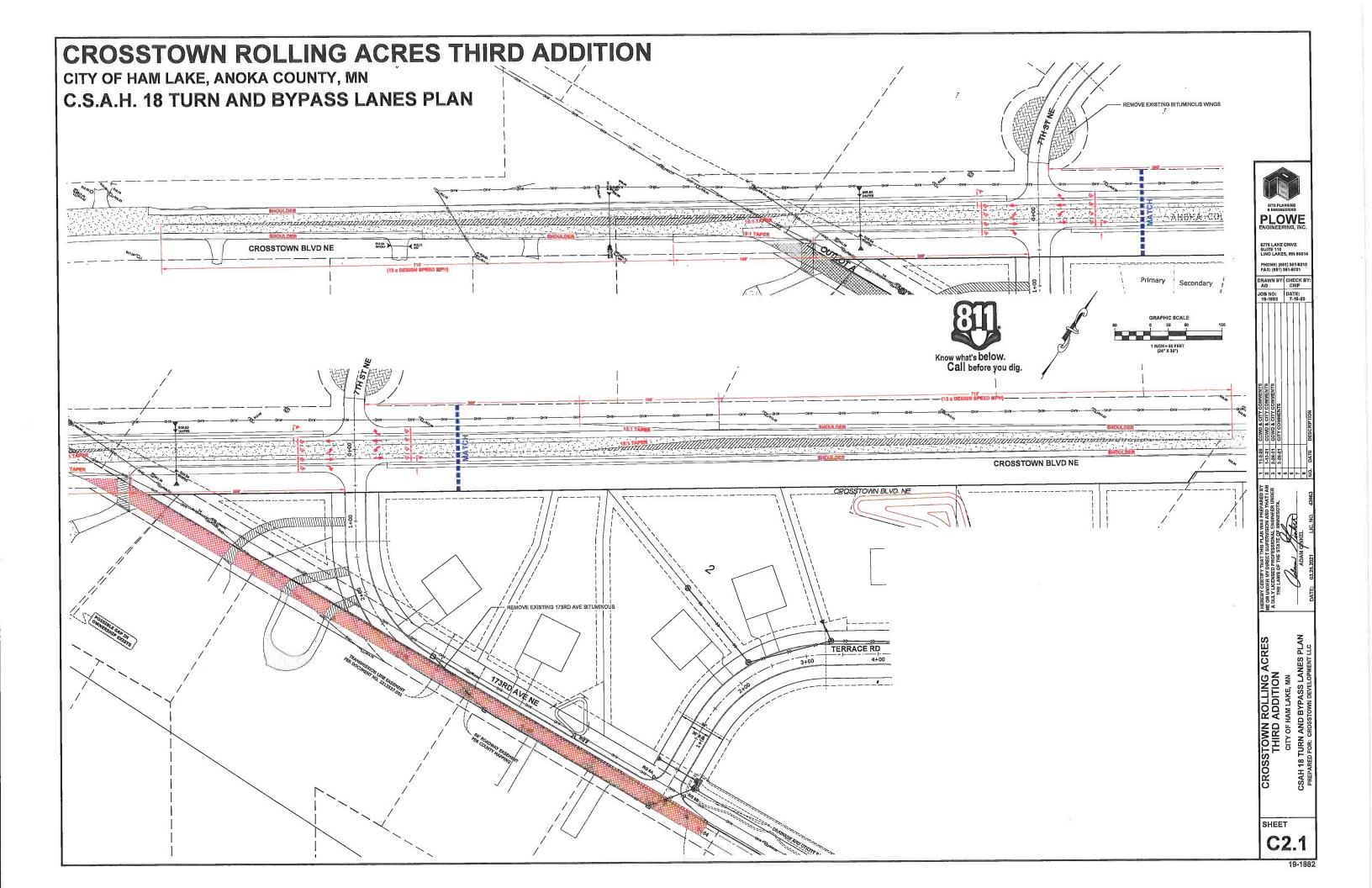
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2 1-13-21 C 3 2-26-21 C 4 3-26-21 C

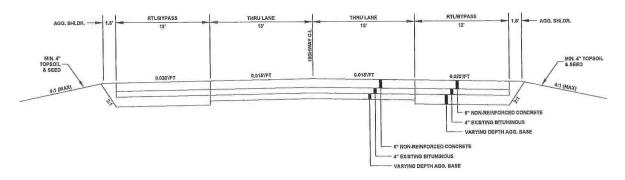
CROSSTOWN ROLLING ACRES
THIRD ADDITION
CITY OF HAM LAKE, MN
LAN PROFILE - TAYLOR ST NE & MISC, STORM
PREPARED FOR: CROSSTOWN DEPLOPMENT LLC

SHEET

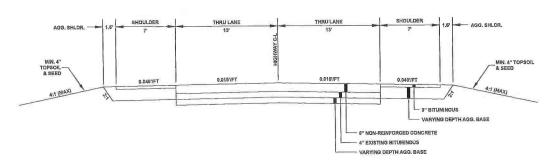


CITY OF HAM LAKE, ANOKA COUNTY, MN C.S.A.H. 18 TURN AND BYPASS LANE DETAILS

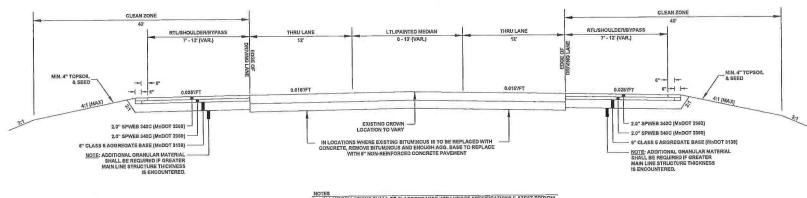
C.S.A.H. 18 (CROSSTOWN BLVD.) EXISTING TYP. SECTION



C.S.A.H. 18 (CROSSTOWN BLVD.) EXISTING TYP. SECTION BITUMINOUS SHOULDER



C.S.A.H. 18 (CROSSTOWN BLVD.) PROPOSED TYP. SECTION RTL/BYPASS LANES



PLOWE

JOB NO: DATE: 19-1882 7-16-20

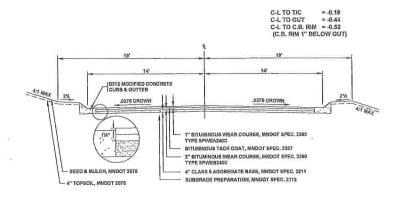
SHEET

CROSSTOWN ROLLING ACRES THIRD ADDITION CITY OF HAM LAKE, ANOKA COUNTY, MN C.S.A.H. 58 TURN LANE PLAN Know what's below. Call before you dig. SITE PLANNING ENGINEERING C.S.A.H. 58 (5TH ST.) PROPOSED TYP. SECTION 3 SHEET C2.3

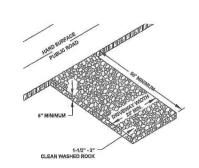
9-1882

CITY OF HAM LAKE, ANOKA COUNTY, MN **DETAILS**

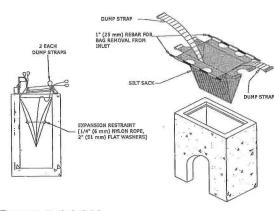




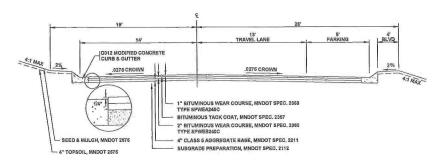




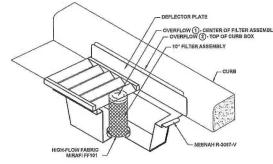




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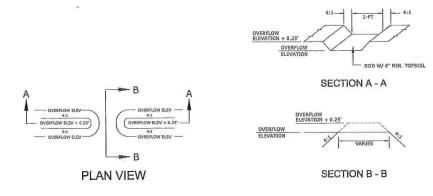






1	WIMCO	INLET	PROT	ECTION
	N.T.S.			

	- DEFLECTOR PLATE
	OVERFLOW (1)- CENTER OF FILTER ASSEMBLY OVERFLOW (2)- TOP OF CURB BOX
	10" FILTER ASSEMBLY
	CURB
	NEENAH R-3067-V
HIGH-FLOW FABRIC MIRAFI FF101	— REGINAL K-2001-V
WINCO IN ET DOOT	ECTION



1	RATE	CONTROL	BASIN	OVERFLOW
1	NTS			

#	SIZE	CASTING	#	SIZE	CASTING
n.	10.22		11"		
102	48" DIA.	NEENAH R-1733	612	48" DIA.	NEENAH R-3246-C
103	48" DIA.	NEENAH R-3246-C	613	2' x 3'	NEENAH R-3246-C
104	2' x 3'	NEENAH R-3246-C			
			622	48" DIA.	NEENAH R-1733
202	48" DIA.	NEENAH R-1733	623	48" DIA.	NEENAH R-3246-C
203	48" DIA.	NEENAH R-3246-C	624	2' x 3'	NEENAH R-3246-C
204	60" DIA.	NEENAH R-3246-C	625	60" DIA.	NEENAH R-4341
205	MnDOT DES, G	NEENAH R-4341	626	2' x 3'	NEENAH R-3246-C
206	2' x 3'	NEENAH R-3246-C	627	48" DIA.	NEENAH R-3246-C
			628	2' x 3'	NEENAH R-3246-C
402	48" DIA.	NEENAH R-3246-C	629	MnDOT DES. G	NEENAH R-4341
403	2' x 3'	NEENAH R-3246-C			
404	48" DIA.	NEENAH R-4341	702	48" DIA.	NEENAH R-1733
			703	60" DIA.	NEENAH R-3246-C
412	60" DIA.	NEENAH R-1733	704	2' x 3'	NEENAH R-3246-C
413	72" DIA.	NEENAH R-3246-C	705	48" DIA.	NEENAH R-3246-0
414	84" DIA.	NEENAH R-3246-C	707	48" DIA.	NEENAH R-3246-C
415	2' x 3'	NEENAH R-3246-C	709	2' x 3'	NEENAH R-3246-C
416	72" DIA.	NEENAH R-3246-C	710	48" DIA.	NEENAH R-1733
417	48" DIA.	NEENAH R-4341	711	48" DIA.	NEENAH R-1733
418	60" DIA.	NEENAH R-3246-C			
419	2' x 3'	NEENAH R-3246-C	802	48" DIA.	NEENAH R-3246-C
421	48" DIA.	NEENAH R-1733	803	48" DIA.	NEENAH R-3246-0
423	48" DIA.	NEENAH R-1733	804	2' x 3'	NEENAH R-3246-C
424	MnDOT DES. G	NEENAH R-4341			
			900	48" DIA.	NEENAH R-1733
502	48" DIA.	NEENAH R-1733	901	2' x 3'	NEENAH R-3246-C
503	48" DIA.	NEENAH R-3246-C	902	2' x 3'	NEENAH R-3246-C
504	2' x 3'	NEENAH R-3246-C			
505	MnDOT DES. G	NEENAH R-4341	6-B	48" DIA.	NEENAH R-1733
			6-C	48" DIA.	NEENAH R-1733
C4B-2	48" DIA.	NEENAH R-1733			
C4B-3	48" DIA.	NEENAH R-1733	8-B	48" DIA.	NEENAH R-1733
			8-C	48" DIA.	NEENAH R-1733
602	48" DIA.	NEENAH R-1733			
603	60" DIA.	NEENAH R-3246-C	2S-B	48" DIA.	NEENAH R-1733
604	48" DIA.	NEENAH R-3246-C			
605	48" DIA.	NEENAH R-3246-C			

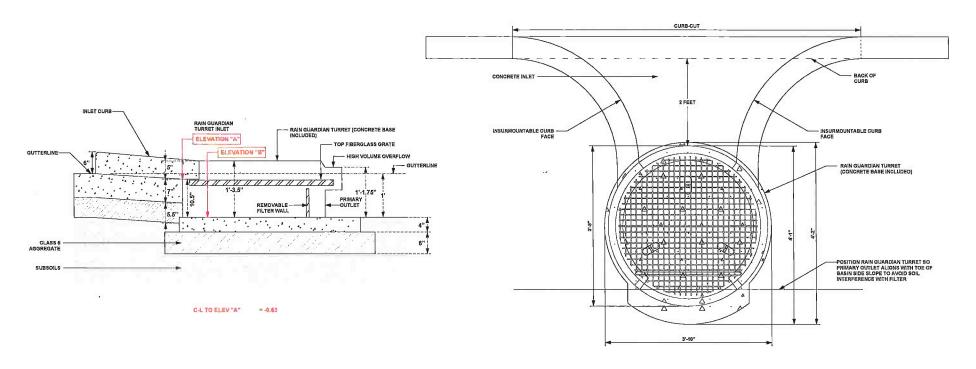
PLOWE JOB NO: DATE: 19-1882 7-16-20

SHEET

C3.1

CITY OF HAM LAKE, ANOKA COUNTY, MN **DETAILS**





BASIN#	IN# STREET C-LSTA C-LELE		C-L ELEV	RG RIM	RG BOT	BASIN				
		O HTUO	F CROSST	OWN						
4A TERRACE 1565 909.79 909.16 908.29 908.										
4B	TERRACE	1132	910.53	909.90	909.03	909.0				
4C	TERRACE	1148	910.87	910.24	909,37	909.0				
4E	TERRACE	873	911.28	910.65	909.78	909.0				
4F	TERRACE	659	910,58	909.95	909.08	909.0				
4G	TERRACE	453	910.10	909.47	908.60	908.6				
5-1	TERRACE	1941	911.44	910.81	909.94	909.5				
5-2	TERRACE	1959	911.44	910.81	909.94	909.5				
6A-1	174TH	2499	911.26	910.63	909.76	909.0				
6A-Z	174TH	2515	911.26	910.63	909.76	909.0				
6C	174TH	3374	910.70	910.07	909.20	909,0				
6D-1	ABLE	105	911.19	910.56	909.69	909.0				
6D-2	ABLE	87	911.19	910.56	909.69	909.0				
7-1	TAYLOR	291	910.40	909.77	908.90	908.5				
7-2	TAYLOR	306	910.40	909.77	908.90	908.5				
В	173RD	561	910.60	909.97	909.10	909.0				
9A	173/TERRACE	N/A	N/A	909.01	908.14	N/A				
98	173/TERRACE	N/A	N/A	908.76	907.89	N/A				
		NORTH C	F CROSS	TOWN						
10A	176TH LN	103	908.49	907.86	906.99	907.0				
108	176TH LN	103	908,49	907.86	906.99	907.0				

C-L STA C-L ELEV RG RIM

= CENTERLINE STATION AT RAIN GUARDIAN = CENTERLINE ELEVATION AT RAIN GUARDIAN

= ELEVATION 'A

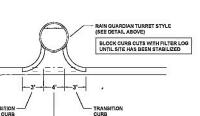
RG BOTTOM

RAIN GUARDIAN ELEVATIONS

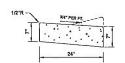
RAIN GARDEN - TURRET STYLE



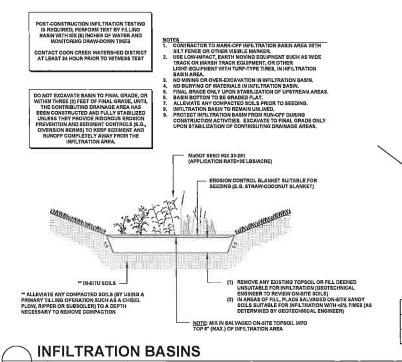




CURB CUTS @ RAIN GUARDIAN



D312 MODIFIED CONCRETE CURB & GUTTER
(AT RAIN GUARDIANS ONLY)



INFILTRATION BASIN OVERFLOW DETAIL

		INFILTRATION BASIN NUMBER													
		4A	4B	4C	4E	4F	4G	5	6A	6C	6D	7	8	9	10
BASIN BOTTOM ELEV.	"A"	908.00	909,00	909,00	909.00	909.00	908,60	909,50	909.00	909.00	909.00	908.50	909.00	909.00	909.00
OUTLET ELEV.	"8"	908.50	909.85	909.75	909.75	909.75	909.60	910.25	909.75	909.75	909.75	909.25	910.00	N/A	N/A
DEPTH (FT)	"C"	0.50	0.85	0.75	0.75	0.75	1.00	0.75	0.75	0.75	0.75	0.75	1.00	N/A	N/A

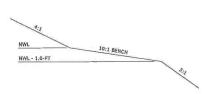
PLOWE

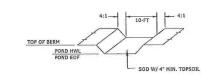
6776 LAKE DRIVE SUITE 110 LINO LAKES, MN 5501

PHONE: (651) 361-821 FAX: (651) 361-8701 DRAWN BY: CHECK B AG CWP JOB NO: DATE: 7-16-20

SHEET

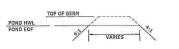
CITY OF HAM LAKE, ANOKA COUNTY, MN **DETAILS**









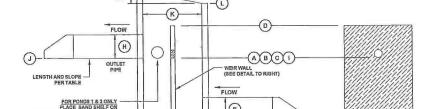


BASIN

MOWING

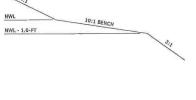
ALLOWED

SECTION B - B



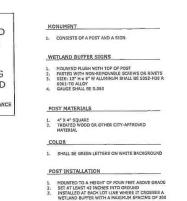
POND O.C.S. DETAIL

	- 1	POND NUMBER							
		NOI	пн	SOUTH					
		1	2	4	5	6	7		
NWL		904.0	904.0	904.4	906.9	906.0	904.7		
HWL		905.7	906.0	906.3	907.7	907.7	906.2		
WEIR WALL									
ORIFICE TYPE	Α	ROUND	ROUND	ROUND	ROUND	ROUND	ROUND		
ORIFICE INVERT	В	904.60	904.50	904.40	906.90	905.00	904.70		
ORIFICE DIAMETER (INCHES)	С	6.0	8.0	8.0	4.0	4.0	4.0		
TOP OF WEIR WALL	D	905.7	906.0	906.3	907.7	907.7	906.2		
SUBMERGED INLET PIPE									
DIAMETER (INCHES)	E	15	15	15	15	15	15		
INVERT @ MANHOLE	F	900.75	900.75	901.15	903.65	902,75	901.45		
INVERT @ SUBM. APRON	G	900.60	900.60	901.00	903.50	902,60	901.30		
LENGTH		22	26	28	20	32	29		
SLOPE		0.68%	26.00%	D.54%	D.75%	0.47%	0.52%		
OUTLET PIPE									
DIAMETER (INCHES)	н	15	15	15	15	15	15		
INVERT @ MANHOLE	1	904,00	904.00	904.40	906,90	906.00	904.70		
INVERT @ DOWNSTREAM END	J	903.90	903.90	904.30	906.84	905.55	904.50		
LENGTH	П	33	28	25	20	168	18		
SLOPE		0.30%	0.36%	0.40%	0.30%	0.27%	1.11%		
MANHOLE									
DIAMETER	К	60	60	60	60	60	60		
RIM (LOW)	L	905.7	906.0	906.3	907.7	907.7	906.2		
RIM (HIGH)	M	906.7	907.0	907.3	908.7	908.7	907.2		



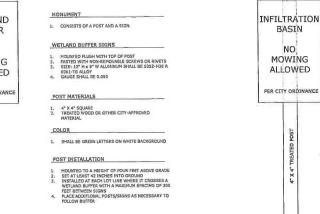






PLAN VIEW





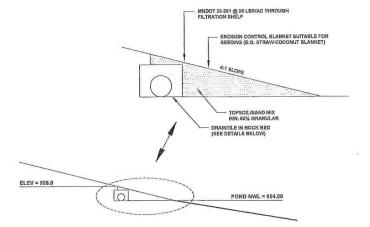
POND SODDED OVERFLOWS



CONSISTS OF A POST AND A SIGN

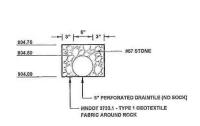
SHALL BE GREEN LETTERS ON WHITE BACKGROUND

INFILTRATION BASIN SIGNS

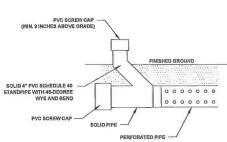


HANDICAP PARKING SIGN





DRAINTILE	IN	ROCK	BED
N.T.S.			



CLEAN-OUT	
N.T.S.	



PLOWE

6776 LAKE DRIVE SUITE 110 LINO LAKES, MN 5501

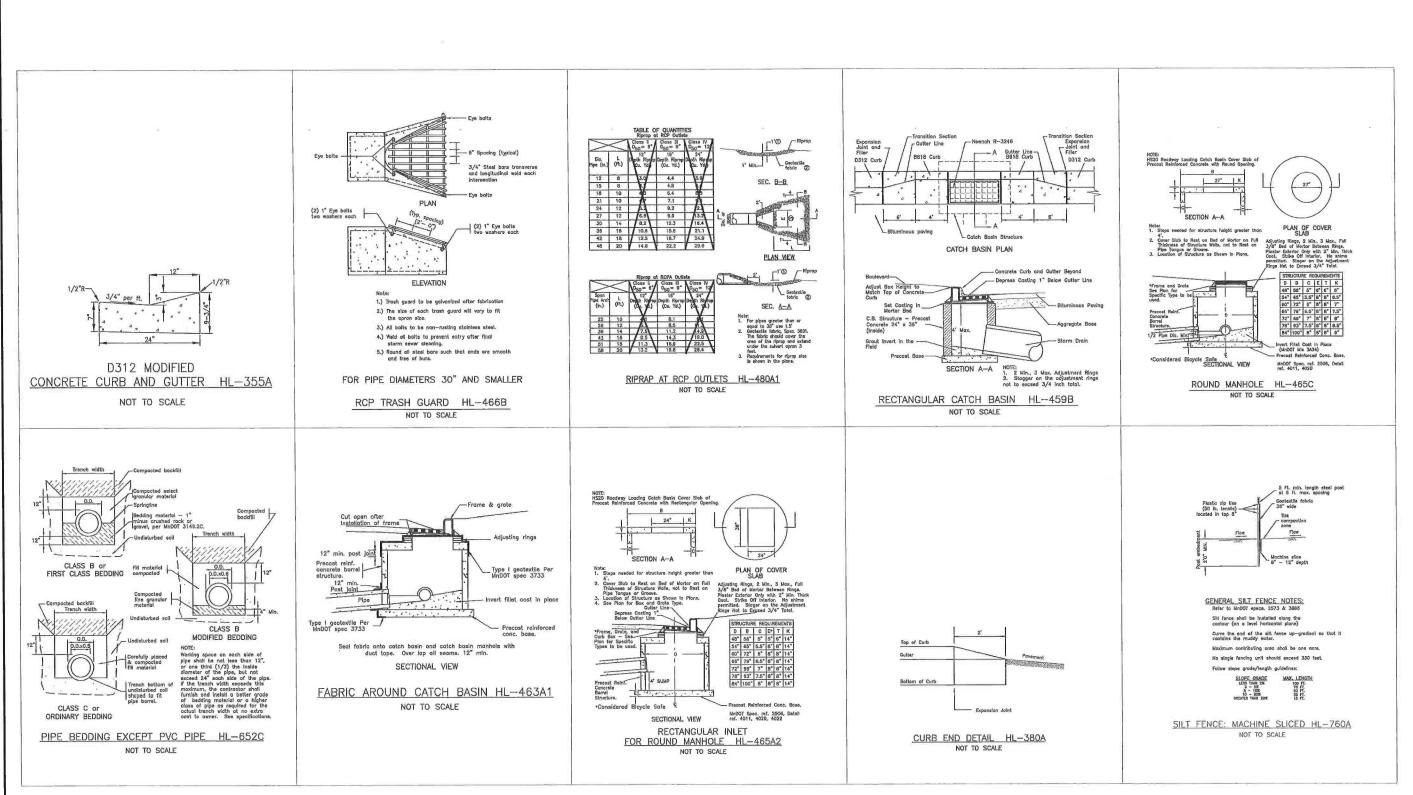
JOB NO: DATE: 19-1882 7-16-20

SHEET

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CITY OF HAM LAKE, ANOKA COUNTY, MN **DETAILS**

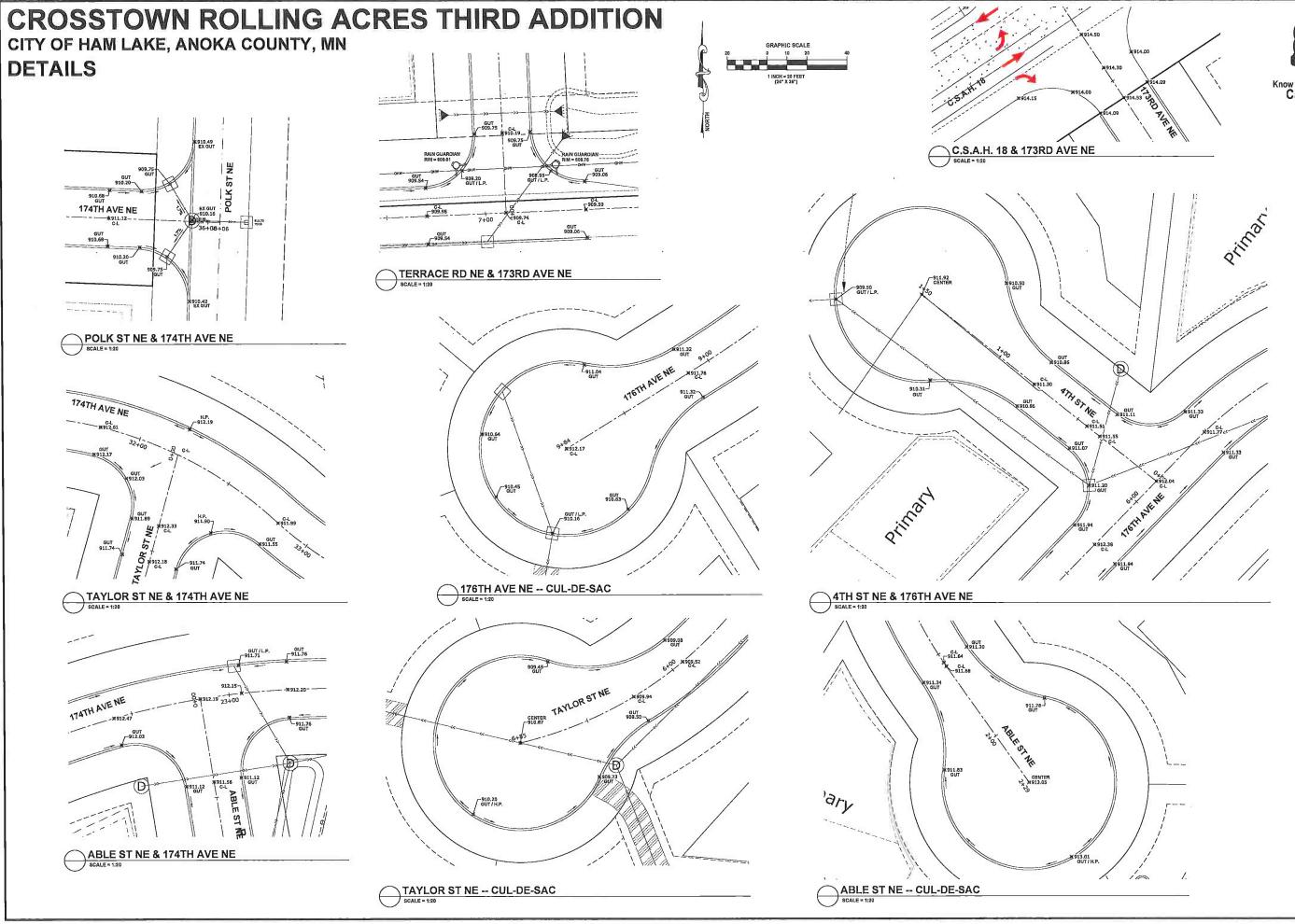






6776 LAKE DRIVE SUITE 110 LINO LAKES, MN 55014

RAWN BY: CHECK B' JOB NO: DATE: 19-1882 7-16-20







CITY OF HAM LAKE, ANOKA COUNTY, MN **SWPPP**

4.1 TERMINATION OF COVERAGE. [MINN. R. 7090]

4.2 PERMITTEES MUST SUBMIT A NOT WITHIN 30 DAYS AFTER ALL TERMINATION CONDITIONS LISTED IN SECTION 13 ARE COMPLETE, MINN, R. 78901

COMPLEIE, IMINH. A USE 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 STIET OF ANOTHER PARTY. THE PERMITTEES' COVERAGE UNDER THIS PERMIT TERMINATES A TIMONIGHT ON THE SUBMISSION DATE OF THE NOT, IMINN. R. 7090]

4.4 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 80 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 ITEM 13.3 THROUGH 13.7.

ATTER PERMIT COVERAGE IS TERMINATED UNDER THIS ITEM, ANY SUBSEQUENT DEVELOPMENT ON THE REMAINING PORTIONS OF THE SITE WILL REQUIRE PERMIT COVERAGE IS THE SUBSEQUENT DEVELOPMENT ITSELF OR AS PART OF THE REMAINING COMMON PLAN OF DEVELOPMENT OR SALE WILL RESULT IN LAND DISTURBING ACTIVITIES OF ONE (1) OR MORE ACRES IN SUZE_MINN. R. 1989]

A.5 PERMITTERS MAY TERMINATE COVERAGE UPON MPCA APPROVAL AFTER SUBMITTING INFORMATION DOCUMENTING THE OWNER CANCELED THE PROJECT, MINN. R. 7090)

9.1 SAYPE AMENDMENTS, IMPIN, B. 7099]
2.2 AOR ITEM 21.2.B OR ANOTHER QUALIFIED INDIVIDUAL MUST COMPLETE ALL SWPPP CHANGES, CHANGES INVOLVANG THE USE OF A LESS STRINGENT BMP MUST INCLUDE A JUSTIFICATION DESCRIBING HOW THE REPLACEMENT BMP IS EFFECTIVE FOR THE SITE CHARACTERISTICS, IMIN, R. 7090]
6.3 PERMITTEES MUST AMEND THE SWPPP TO INCLUDE ADDITIONAL OR MODIFIED BMPS AS INCESSARY TO CORRECT PROBLEMS IDENTIFIED OR ADDRESS SITUATIONS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, MAINTENANCE, WEATHER OR SEASONAL CONDITIONS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, MAINTENANCE, WEATHER OR SEASONAL CONDITIONS HANNED A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR GROOMOWATER, IMIN, R. 7090]

TO SURFACE WATERS OR GROUNDWATER, [MINN. R. 7080]

A. PERMITTEES MUST AMEND THE SYPPP TO INDIL LIDE ADDITIONAL OR MODIFIED BMPS AS NECESSARY TO CORRECT PROBLEMS IDENTIFIED OR ADDRESS SITUATIONS WHENEVER INSPECTIONS OR INVESTIGATIONS BY THE SITE OWNER OR OPERATOR, ISSEP OR RIPECA OFFICIALS INDICATE THE SYPPP IS NOT EFFECTIVE IN ELIMINATING OR SIGNINGWATH, USING WATER GUALITY STANDARD EXCEEDANCES I.E.G., RUISANCE CONDITIONS AS DEFINED IN MINN. R. 7080.0210, SUBP. 2) OR THE SYPPP IS NOT CONSISTENT WITH THE GOS-SECTIVES OF A USERA PROPOZED THAC, [MINN. R. 7080.0210].

7.1 BMP SELECTION AND INSTALLATION. [MINN. R. 7090]

7.2 PERMITTES MUST SELECT, INTRIAL, AND MAINTAIN THE BMPS IDENTIFIED IN THE SWPPP AND IN THIS PERMIT IN AN APPROPRIATE AND FUNCTIONAL MANURE AND IN ACCORDANCE WITH RELEVANT MANUFACTURER SPECIFICATIONS AND ACCEPTED ENDIFICENTIAL MANUFACTURER SPECIFICATIONS AND ACCEPTED ENDIFICENTIAL PROTECTIONS. (MINN. R. 7090)

8.1 EROSION PREVENTION PRACTICES, [MINN, R. 7090]

8.2 REFORE WORK REGINS PERMITTERS MUST DELINEATE THE LOGATION OF AREAS NOT TO BE DISTURBED, (MINN. R. 7090)

B.2 BEFORE WORK BEGINS, FERMITTEES MUST CILLINEATE THE LOCATION OF AREAS NOT TO BE DISTURBED, (MINN. R. 7809)

3. PERMITTEES MUST MINIMACE THE NEED FOR DISTURBANCE OF PORTIONS OF THE PROJECT WITH STEEP SLOPES, WHEN STEEP SLOPES MUST EXPENDED FOR STEEP SLOPES MUST SEED SLOPES MUST SHAPE SLOPES MUST SHAPE SHOW SEED SLOPES MUST SHAPE SHOW SEED SLOPES MUST SHAPE SHOW SHAPE SHAPE SHOW SHAPE SHAPE SHAPE SHOW SHAPE SHAPE

S. FOR PUBLIC WATERS THAT THE MINNESOTA DNR HAS PROMULGATED "WORK IN WATER RESTRICTIONS" DURING SPECIFIED TIEST OF THE WATERS THAT THE MINNESOTA DNR HAS PROMULGATED "WORK IN WATER RESTRICTIONS" DURING SPECIFIED TIEST OF THE WATERS EDGE, AND THAT ORAIN TO THESE WATERS, WITHIN 24 HOURS DURING THE RESTRICTION PERIOD, (MRM. R. 1908).

INMIN. R. 7899]
S. FERMITTEES MUST STABILIZE THE NORMAL WETTED PERIMETER OF THE LAST 200 LINEAR FEET OF TEMPORARY OR PERIMANENT DRAINAGE DITCHES OR SWALES THAT DRAIN WATER FROM THE SITE WITHIN 24 HOURS AFTER CONNECTING TO A SUPFACE WATER OR PROPERTY POED, PERMITTEES MUST COMPLETE STABILIZATION OF REMAINING PORTIONS OF TEMPORARY OR PREMAINED PORTIONS OF SWALES WITHIN 7 GALENGAR DAY'S AFTER CONNECTING TO A SUPFACE WATER OR PROPERTY REDUCED AND CONSTRUCTION IN THAT PORTION OF THE INTO THE TEMPORARY OF PERMAINENT DITCHES OR SWALES WITHIN 7 GALENGAR DAY'S AFTER CONNECTING TO A SUPFACE WATER OR PROPERTY OF PERMAINENTLY DEALS S. (MINK). S. 7999]

1999/ IMPOPARY OR PERMANENT DTICHES OR SWALLES BEING USED AS A SEDIMENT CONTAINMENT SYSTEM DURING STATISTICATION (MYTH PRODESSLY MESSANDES ROSCADITCH CHECKS, BIG POLLS, SILT, DOKES, ETC, DO ROT NEED TO DE STABILIZED, PERMITTEES MUST STABILIZE THESE AREAS WITHIN 24 HOURS AFTER THEIR USE AS A SEDIMENT CONTAIN SYSTEM CLASSES, RIMIN. R. 7000.

AS PERMITTEES MUST NOT USE MULCH, HYDROMULCH, TACKIFIER, POLYACRYLAMIDE OR SIMILAR EROSION PREVENTION PROTORS WITHIN ANY PORTION OF THE NORMAL WETTERS THE PERMITTER OF A TEMPORARY OR PERMANENT DRAINAGE DITCH OR SWALE SEC 8.10 PERMITTEES MUST NOT DISTURB MORE LAND (I.E., PHASING) THAN CAN BE EFFECTIVELY INSPECTED AND MAINTAINED IN ACCORDANCE WITH SECTION 11. [MINN. R. 7990]

9,1 SEDIMENT CONTROL PRACTICES. [MINN. R. 7090]

EMITTEES MUST ESTABLISH SEDIMENT CONTROL BMPS ON ALL DOWNGRADIENT PERIMETERS OF THE SITE AND GRADIENT AREAS OF THE SITE THAT DRAIN TO ANY SURFACE WATER, INCLUDING CURB AND GUTTER SYSTEMS, TITES MUST LOCATE SEDIMENT CONTROL PRACTICES UPGRADIENT OF ANY SURFACE ACHS. PERMITTERS MUST LL SEDIMENT CONTROL PRACTICES BEFORE ANY UPGRADIENT LAND-DISTURBING ACTIVITIES BEGIN AND MUST KEEP EDIMENT CONTROL PRACTICES IN PLACE UNIT. HEY ESTABLISH PERMANENT COVER, MINNER. 7803 HE

A TEMPORATOR OF 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. MININ. R. 70001

APPROPRIATE FOR SITE CONDITIONS, MINN. R. 7090]

S. A. FLOATING SILT CURTAM PLACED IN THE WATER IS NOT A SEDIMENT CONTROL BMP TO SATISFY ITEM 9.2 EXCEPT WHEN WORKING ON A SHORELINE OR BELOW THE WATER IS NOT A SEDIMENT CONTROL. BROWN THE SHORT TERM CONSTRUCTION ACTIVITY (E.G., INSTALLATION OF PIR PAR ALONS THE SHORELINE) IN THAT AREA IS COMPLETE, PERMITTEES MUST INSTALLAL ULPLAND PERIMETER CONTROL. PRACTICE IF EXPOSED SOILS STILL DRAIN TO A SURFACE WATER, [MINN. R. 7080]. A PERMITTEE OF MUST FEMALELIAL LAL SEDIMENT CONTROL. PRACTICES ADJUSTED OR REMOVED TO ACCOMMODATE SHORT-TERM ACTIVITIES SUCH AS CLEARNING OR ORUBBING, OR PASSAGE OF VEHICLES, IMMEDIATELY AFTER THE SHORT-TERM ACTIVITIES TO COMPLETED, PERMITTEES MUST RE-INSTALL SEDIMENT CONTROL. PRACTICES BEFORE THE NEXT PRECIPITATION SEVENT EVEN THE THE SHORT-TERM ACTIVITY IS OFTEN THE STORT-THE SHORT EVENT EVENT ACTIVITY IS NOT COMPLETE, [MINN. R. 7080]

9.7 PERMITTEES MUST PROTECT ALL STORM DRAIN INLETS USING APPROPRIATE BMPS DURING CONSTRUCTION UNTIL THEY ESTABLISH PERMANENT COVER ON ALL AREAS WITH POTENTIAL FOR DISCHARGING TO THE INLET, [MINN. R. 7090] 9.9 PERMITTES MAY REMOVE INTERPROTECTION FOR A PARTICULAR INLET IS RESCRIBED TO THE RULE, (MINN. K. 1999)

9.9 PERMITTES MAY REMOVE INLET PROTECTION FOR A PARTICULAR INLET IS A PSECPIC SAFETY CONCERN (E.G. STREET FLOORINGHEEZHING) IS IDENTIFIED BY THE PERMITTES OR THE JURISDICTIONAL AUTHORITY (E.G., CITYCOUNTYTOWNSHIPMININESOTO DEPARTMENT OF TRANSPORTATION ENGINEER). PERMITTESS MUST DOCUMENT THE NEED FOR REMOVAL IN THE SWPPP, (MINN. R. 7090)

8.9 PERMITTEES MUST PROVIDE SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROLS AT THE BASE OF STOCKPILES ON THE DOWNGRADIENT PERIMETER (MINN. R. 7080)

9.10 PERRITTEES MUST LOCATE STOCKPILES GUTSIDE OF NATURAL BUFFERS OR SURFACE WATERS, INCLUDING STORWWATER CONVEYANCES SUCH AS CURB AND GUTTER SYSTEMS UNLESS THERE IS A BYPASS IN PLAGE FOR THE

2-1-000TAN LET, UNITOR, N. (1992)
3.11 PERMITTES MUST INSTALLA VENICLE TRACKING BMP TO MINIMIZE THE TRACK OUT OF SEDIMENT FROM THE CONSTRUCTION SITE OR ONTO PAVED ROADS WITHIN THE SITE, (MINN, R. 7989)
3.12 PERMITTES MUST INSERT SYEEPING IF VEHICLE TRACKING BMPS ARE NOT ADEQUATE TO PREVENT SEDIMENT TRACKING ONTO THE STREET, (MINN, R. 7989)

9.13 PERMITTEES MUST INSTALL TEMPORARY SEDIMENT BASINS AS REQUIRED IN SECTION 14. [MINN. R. 7080]

9.14 IN ANY AREAS OF THE SITE WHERE FINAL VEGETATIVE STABILIZATION WILL OCCUR, PERMITTEES MUST RESTRICT VEHICLE AND EQUIPMENT USE TO MINIMIZE SOIL COMPACTION. (MINN. R. 7090)

VEHICLE AND EQUIPMENT USE TO MINIMIZE SOIL COMPACTION, (MINN. R. 7090)

9.16 PERMITTEES MUST PRESERVE TOPSOIL ON THE SITE, UNLESS INFEASIBLE, (MINN. R. 7090)

9.16 PERMITTEES MUST DRECOT DISCHARGES FROM BINPS TO VEGETATED AREAS UNLESS INFEASIBLE, (MINN. R. 7090)

9.17 PERMITTEES MUST PRESERVE A 90 FOOT MATURAL BUFFER OR, IF A BUFFER IS INFEASIBLE ON THE SITE, PROVIDE REPONDANT (DOUBLE) PERMITTER SEDIMENT CONTROLS WHEN A SUFFACE WATER PERMITTERS INCESTED THAT OF THE PROJECT'S EARTH DISTURBANCES AND STORMWATER FLOWS TO THE SURFACE WATER, PERMITTERS MUST INSTALL PRIMITERS AND ROT REQUIRED ADJACED AT LEAST SETE APART INJURES, UNITED BY LOCK OF AVAILABLE SPACE, MATURAL BUFFERS AND ROT REQUIRED ADJACED AT TO ROAD DIT ONES, JUDICIAL TOTORIES, COUNTY TO TO HES, STORMWATER FLOWS TO THE SURFACE WATER, PERMITTERS MUST TO THE SURFACE WATER PERMITTERS MUST THE PROVINCE OF THE PROJECT OF THE PROJECT OF THE PROVINCE WATER PROVINCE WATER PROJECT OF THE PRO

INSTALLED IN A MANNER THAT RETAINS ALL STORMWALER (MINN. K. 1999)

18.18 PERMITTERS MUST USE POLYMERS, PLOCOULANTS, OR OTHER SEDIMENTATION TREATMENT CHEMICALS IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES, DOSING SPECIFICATIONS AND SEDIMENT REMOVAL DESION SPECIFICATIONS PROVIDED BY THE MANUFACTURE OR SUPPLIER. THE PERMITTERS MUST USE CONVENTIONAL ERO: AND SEDIMENT CONTROLS PRIOR TO GHEMICAL ADDITION AND MUST DIFFER THE DISTORMWATER TO A SEDIMENT CONTROLS PRIOR TO STORMWATER TO A SEDIMENT OF THE FLOOPRICE TREATED STORMWATER TO A SEDIMENT CONTROLS PRIOR FOR EXTENSION OR SETTLEMENT OF THE FLOOPRICE TO STORMAGE, EMINN. A TOWN

0.1 DEWATERING AND BASIN DRAINING, [MINN. R. 7090]

19.1 DEWATERING AND BASIN ORAINING, JIMNN. R. 70991
19.2 PERMITTEES MUST DISCHARGE TURBID OR SEDIMENT-LADEN WATERS RELATED TO DEWATERING OR BASIN DRAINING (E.G., PUMPED DISCHARGES, TRENCHOITCH CUTS FOR DRAINAGE) TO A TEMPORARY OR PERMANENT SEDIMENT BASIN ON THE PROJECTS TOTE UNLESS INFERSIBLE, PERMITTEES MAY DEWATER TO SUPPLY WETER IF THEY VISUALLY CHECK TO ENSURE ADEQUATE TREATMENT HAS BEEN GITAINED AND MUISANCE CONDITIONS (SEE MINN R. 7050/210, SUPP. 2) WHITE OF THE CONTROLLED AND MUISANCE CONDITIONS (SEE MINN R. 7050/210, SUPP. 2) WHITE OF THE CONTROLLED AND THE CONTROLLED AND THE OFFICE OF THE CONTROLLED AND THE OFFICE OF THE CONTROLLED AND THE OFFICE OF THE OFFICE OF THE OFFICE OFF

10.3 IF PERMITTEES MUST DISCHARGE WATER CONTAINING OIL OR GREASE, THEY MUST USE AN OIL-WATER SEPARATOR OR SUITABLE FILTRATION DEVICE (E.G., CARTRIDGE FILTERS, ABSORBENTS PADS) PRIOR TO DISCHARGE, [MINN. R. 7090] SUITABLE PIL TRATION DEVINE (E.G., CARTINIDGE PILTERS, ABSORBENTS PADS) PRIOR TO DISCHARGE, (MINN. R. 7089)

10.4 PERMITTEES MUST DISCHARGE ALL WATER FROM DEWATERING OR BASIN-ORATINING ACTIVITIES IN A MANNER THAT DOI NOT GAUSE EROSION OR SCOUR IN THE IMMEDIATE VICINITY OF DISCHARGE POINTS OR INJURATION OF WETLANDS IN THE MIMEDIATE VICINITY OF DISCHARGE POINTS HAPACT TO THE WETLAND, MINN. R. 7089) 10.5 IF PERMITTEES USE FILTERS WITH BACKWASH WATER, THEY MUST 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, MINN. R. 7989)

11.1 INSPECTIONS AND MAINTENANCE, IMMN. K. 1991 11.2 PERMITTEES MUST ENSURE A TRAINED PERSON, AS IDENTIFIED IN ITEM 21.2.B, WILL INSPECT THE ENTIRE CONSTRUCTION SITE AT LEAST ONCE EVERY SEVEN (7) DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 12 IZHOH LU 24 HOURS, IMMN. R. 7980)

11.3 PERMITTEES MUST INSPECT AND MAINTAIN ALL PERMANENT STORMWATER TREATMENT BMPS. [MINN. R. 7090]

11.9 PERMITTEES MUST INSPECT AND MAINTAIN ALL PERMANENT STORMWATER TREATMENT BMPS. [MIRN. R. 7090]
11.4 PERMITTEES MUST INSPECT ALL SOSION PREVENTION AND SEDMENT CONTROL, BMPS AND POLLUTION
MANAGEMENT MEASURES TO ENSURE INTEGRITY AND EFFECTIVENESS, PERMITTES MUST REPLACE OR
SUPPLEMENT ALL NON-UNCTIONAL BMPS WITH FUNCTIONAL BMPS SET PLE BMD OF THE MEXT BUSINESS DAY ACTION
SUPPLEMENT ALL NON-UNCTIONAL BMPS WITH FUNCTIONAL BMPS SET PLE BMD OF THE MEXT BUSINESS DAY ACTION
FUNCTIONS PREVENT ACCESS TO THE AREA. [MINN. R. 7090]
11.5 DUBINO BACH HISPECTION, PERMITTEES MUST REPLACE MAYERS, INCLUDING DRAINAGE DITTOHES AND
CONNEYANCE SYSTEMS BUT NOT GURBS AND OUTTEE SYSTEMS, FOR EVIDENCE OF ERSIONA AND SEDIMENT DEPOSITION.
PERMITTEES MUST REMOVE ALL DELTAS AND SEDIMENT DEPOSITION IN SUPPLIES AND SEDIMENT DEPOSITION.
PERMITTEES MUST REMOVE ALL DELTAS AND SEDIMENT DEPOSITION IN SUPPLIES AND SEDIMENT DEPOSITION.
PERMITTEES MUST REMOVE ALL DELTAS AND SEDIMENT DEPOSITION IN SUPPLIES AND SEDIMENT DEPOSITION.
PERMITTEES MUST REMOVE ALL DELTAS AND SEDIMENT DEPOSITION WITHIN SEVERI DI CALENDAR DAYS OF
DISCOVERY UNLESS PRECLUDED BY LEGAL, REGULATORY, OR PHYSICAL ACCESS CONSTRAINTS, PERMITTEES MUST USE ALL
REASONABLE EFFONTS TO OBTAIN ACCESS. IP PRECLUDED, REMOVAL AND TABILIZATION WITHIN SEVERI DI CALENDAR DAYS OF
DISCOVERY UNLESS PRECLUDED BY LEGAL, REGULATORY, OR PHYSICAL ACCESS CONSTRAINTS, PERMITTEES MUST USE ALL
REASONABLE EFFONTS TO OBTAIN ACCESS. IP PRECLUDED, REMOVAL AND TABILIZATION MASS PERMITTEES MUST USE ALL
FEMERAL AUTHORITIES AND RECEIVING ANY APPLICABLE PERMITS, PRIOR TO CONDUCTING ANY WORK IN SURFAGE WATERS.
[MINN. R. 7090]

[MINN. R. 7990]
I S. PERMITTEES MUST INSPECT CONSTRUCTION SITE VEHICLE EXIT LOGATIONS, STREETS AND CURB AND GUTTER SYSTEM WITHIN AND ADJACENT TO THE PROJECT FOR SEDIMENTATION FROM EROSION OR TRACKED SEDIMENT FROM WEHICLES. PERMITTES MUST REMOVE SEDIMENT FROM LA PAYED SURPACES WITHIN ONE IJ CALENDAR DAY OF DISCOVERY OR, IF APPLICABLE, WITHIN AS HORTER TIME TO AVOID A SAFETY HAZARD TO USERS OF PUBLIC STREETS, [MINN. R. 7890]
11.7 PERMITTES MUST REPAIR, REPLACE OR SUPPLEMENT ALL PERMIETER CONTROL DEVICES WHEN THEY BECOME MONFUNCTIONAL OR THE SEDIMENT REACHES 1/2 OF THE HEIGHT OF THE DEVICE, [MINN. R. 7890]

11.8 PERMITTEES MUST DRAIN TEMPORARY AND PERMANENT SEDIMENTATION BASINS AND REMOVE THE SEDIMENT WHEN THE DEPTH OF SEDIMENT COLLECTED IN THE BASIN REACHES 1/2 THE STORAGE VOLUME, [MINN. R. 7090] 11.9 PERMITTEES MUST ENSURE THAT AT LEAST ONE INDIVIDUAL PRESENT ON THE SITE (OR AVAILABLE TO THE PROJECT SITE IN THREE (3) CALENDAR DAYS) IS TRAINED IN THE JOB DUTIES DESCRIBED IN ITEM 21.2.B. (MINN. R. 7080) 11.10 PERMITTEES MAY ADJUST THE INSPECTION SCHEDULE DESCRIBED IN ITEM 11.2 AS FOLLOWS:

- 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 AND REFOLUCED TO ONCE PER MONTH AND, AFTER 12 MONTHS, MAY BE SUSPENDED COMPLETELY UNTIL CONSTRUCTION ACTIVITY RESUMES. THE MPCA MAY REQUIRE INSPECTIONS TO RESUM IF CONDITIONS WARRANT, OR CONDITIONS WARRANT, OR CONDITIONS HAVE A CONDITIONS AND THE MPCA MAY REQUIRE INSPECTIONS MAY BE SUSPENDED. INSPECTIONS MUST RESUME WITHIN 24 HOURS OF RUNOFF OCCURRING, OR UPON RESUMING CONSTRUCTION, WHICHEVER COMES FIRST. (MINN R. 7080)

11.11 PERMITTEES MUST RECORD ALL INSPECTIONS AND MAINTENANCE ACTIVITIES WITHIN 24 HOURS OF BEING CONDUCTED AND THESE RECORDS MUST BE RETAINED WITH THE SWPPP. THESE RECORDS MUST INCLUDE:

- A. DATE AND TIME OF INSPECTIONS; AND B. NAME OF PERSONS CONDUCTING INSPECTIONS; AND
- ACCURATE FINDINGS OF INSPECTIONS, INCLUDING THE SPECIFIC LOCATION WHERE CORRECTIVE ACTIONS ARE NEEDED; AND
- D. CORRECTIVE ACTIONS TAKEN (INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES); AND E. DATE OF ALL RAINFALL EVENTS GREATER THAN 1/2 INCHES IN 24 HOURS, AND THE AMOUNT OF RAINFALL FOR EACH EVENT. PERMITTEES MUST OBTAIN RAINFALL AMOUNTS BY EITHER A PROPERLY MAINTAINED RAIN GAUGE INSTALLED CASITE, A WEATHER STATION THAT IS WITHIN ONE (1) MILE OF YOUR LOCATION, OR A WEATHER REPORTING SYSTEM THAT PROVIDES SITE SPECIFIC RAINFALL DATA FROM RADAR SUMMARIES; AND
- F. IF PERMITTEES OBSERVE A DISCHARGE DUBLING THE INSPECTION, THEY MUST RECORD AND SHOULD PHOTOGRAPH AND DESCRIBE THE LOCATION OF THE DISCHARGE (LE, COLOR, DODR, SETTLED OR SUSPENDED SOLIDS, OIL SHEEN, AND OTHER DISCHOOLS INDICATORS OF POLLUTARITY; AND
- G. ANY AMENDMENTS TO THE SWPPP PROPOSED AS A RESULT OF THE INSPECTION MUST BE DOCUMENTED AS REQUIRED IN SECTION 6 WITHIN SEVEN (7) CALENDAR DAYS. (MINN. R. 7090)

12.1 PCILLUTION PREVENTION MANAGEMENT MEASURES, MINN. R. 7099)
12.2 PERMITTEES MUST PLACE BULIDIN PRODUCTS AND LANSGADE MATERIALS UNDER COVER (E.G., PLASTIC SHEETING OR TEMPORARY ROOFS) OR PROTECT THEM BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WITH STORMWATER, PERMITTEES ARE NOT REQUIRED TO COVER OR PROTECT PRODUCTS WHICH ARE EITHER NOT A SOURCE OF CONTAMINATION TO STORMWATER OR ARE DESIGNED TO BE EXPOSED TO STORMWATER, (MINN. R. 7099)
12.3 PERMITTEES MUST PLACE PESTICIDES, FERTILIZERS AND TREATMENT CHEMICALS UNDER COVER (E.G., PLASTIC SHEETING OR TEMPORARY ROOFS) OR PROTECT THEM BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT

12.4 PERMITTEEN BUINS TOTOR MAZARDOUS MATERIALS AND TOXIC WASTE, (INCLUDING OIL, DIESEL FUEL, GASOLINE, HYDRAULIC FLUIDS, PAINT SOLVENTS, PETROLEUM-BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING COMPOUNDS, AND ACIDS) IN SEALED FOOTMAINERS TO PREVENTS FUELS, LEAKS OR OTHER DISCHARGE. STORAGE AND DISPOSAL OF HAZARDOUS WASTE MATERIALS MUST BE IN COMPLIANCE WITH MINN. R. OH. 7046 INCLUDING SECONDAI CONTAINMENT AS APPLICABLE (MINN. R. 708).

12.5 PERMITTEES MUST PROPERLY STORE, COLLECT AND DISPOSE SOLID WASTE IN COMPLIANCE WITH MINN. R. CH. 7835.
1MINN. R. 78351

12.6 PERMITTEES MUST POSITION PORTABLE TOILETS SO THEY ARE SEGURE AND WILL NOT TIP OR BE KNOCKED OVER. PERMITTEES MUST PROPERLY DISPOSE SANITARY WASTE IN ACCORDANCE WITH MINN. R. CH. 7041. [MINN. R. 7041] 12.1 PERMITTEES MUST TAKE REAGONABLE STEPS TO PREVENT THE DISCHARGE OF SPILLED OR LEAKED CHEMICALS, MUCLIDING HELL, FROM ANY AREA WHERE CHEMICALS OR FULLY WILL BE LOADED OR UNLICADED INCLUDING THE USE OF DRIP PANS OR ABSORBENTS UNLESS INFEASIBLE, PERMITTEES MUST ENSURE ADEQUATE SUPPLIES ARE AVAILABLE AT ALL TIMES TO CLEAN UP BIOCHARGED MATERIALS AND THAT AN APPROPRIATE DISPOSAL METHOD IS AVAILABLE FOR RECOVED SPILLED MATERIALS, PRIMITTEES MUST REPORT AND OLEAN UP SPILLS IMMEDIATELY AS REQUIRED BY MINN. STAT. 115.051, USIND DRY CLEAN UP MEASURES WHERE POSSIBLE, MINN. STAT. 115.051

12.8 PERMITTEES MUST LIMIT VEHICLE EXTERIOR WASHING AND EQUIPMENT TO A DEFINED AREA OF THE SITE, PERMIT MUST CONTAIN RUNDEF FROM THE WASHING AREA IN A SEDIMENT BASIN OR OTHER SIMILARLY EFFECTIVE CONTROLS MUST DISPOSE WASTE FROM THE WASHING AREA IN A SEDIMENT BASIN OR OTHER SIMILARLY EFFECTIVE CONTROLS MUST DISPOSE WASTE FROM THE WASHING ACTIVITY PROPERLY. PERMITTEES MUST PROPERLY USE AND STORE SOA DETERGENTS, OR SOLVENTS, (MINN. R. 7094)

DETERGENTS, OR SOLVENTS, (MINN. R. 7999)
12.9 FERMITTEES MUST PROVIDE EFFECTIVE CONTAINMENT FOR ALL LIQUID AND SOLID WASTES GENERATED BY WASHOUT
OFERATIONS (E.G., ODICKETÉ, STUCCO, PAINT, FORM RELEASE OILS, CURRING COMPOUNDS AND OTHER CONSTRUCTION
OFERATIONS (E.G., ODICKETÉ, STUCCO, PAINT, FORM RELEASE OILS, CURRING COMPOUNDS AND OTHER CONSTRUCTION
MATERIALS, RELATED DETHEMORY OF MUST DESIGN THE CONTAINMENT SO IT DOES NOT RESULT IN RUMOFF FROM THE
WASHOUT OFFRATIONS OR RAGES, PERMITTEES MUST PROPERTY DISPOSE LIQUID AND SOLID WASTES IN COMPUTANCE WITH
MPCA RULES. PERMITTEES MUST KINSTALL A SIGN INDICATING THE LOCATION OF THE WASHOUT FACILITY, [MINN. R. 7935, MINN.
R. 7990]

19.2 FERMITTEES MUST COMPLETE ALL CONSTRUCTION ACTIVITY AND MUST INSTALL PERMANENT COVER OVER ALL ÁREAS PRIOR TO SUBMITTION THE FIRST TO FIRST EXPECTED FINAL GROWTH. VEGETATION, SUBMITTION THE FIRST TO FIRST SEXPECTED FINAL GROWTH. VEGETATION IS NOT REQUIRED WHERE THE FUNCTION OF A SPECIFIC AREA DICTATES NO VEGETATION, SUCH AS IMPERVIOUS SURFACES OF THE BASE OF A SAND FILTER, DINNN. R. 7899 13.3 PERMITTESS MUST CLEAN THE PERMANENT STORMWATER TREATMENT SYSTEM OF ANY ACCUMULATED SEDIMENT AND MUST ENSURE IT HE SYSTEM MEETS ALL APPLICABLE REQUIREMENTS IN SECTION 16 THROUGH 19 AND IS OPERATING AS DESIGNED, MINN. R. 7890

13.4 PERMITTEES MUST REMOVE ALL SEDIMENT FROM CONVEYANCE SYSTEMS PRIOR TO SUBMITTING THE NOT. [MINN. R. 7090] 13.6 PERMITTEES MUST REMOVE ALL TEMPORARY SYNTHETIC EROSION PREVENTION AND SEDIMENT CONTROL BMPS PRIOR TO SUBMITTING THE NOT, PERMITTEES MAY LEAVE BMPS DESIGNED TO DECOMPOSE ON-SITE IN PLACE. [MINN. R. 7090] 13.6 FOR RESIDENTIAL CONSTRUCTION ONLY, PERMIT COVERAGE TERMINATES ON INDIVIDUAL LOTS IF THE STRUCTURES ARE FINISHED AND TEMPORARY EROSION PREVENTION AND DOWNIGRADIENT PERIMETER CONTROL IS COMPLETE, THE RESIDENCE SELLS TO THE HOMEOWNER, AND THE PERMITTEE DISTRIBUTES THE MPCA'S "HOMEOWNER FACT SHEET" TO THE HOMEOWNER, (MINN. R. 7698)

13.7 FOR CONSTRUCTION PROJECTS ON AGRICULTURAL LAND (E.G., PIPELINES ACROSS CROPLAND), PERMITTEES MUST RETURN THE DISTURBED LAND TO ITS PRECONSTRUCTION AGRICULTURAL USE PRIOR TO SUBMITTING THE NOT. [MINN. R.

14.1 TEMPORARY SEDIMENT BASINS. [MINN. R. 7090]

AZ VIMERE TEN (19) OR MORE AGRES OF DISTURBED SOIL DRAIN TO A COMMON LOCATION, PERMITTEES MUST PROVIDE A TEMPORARY SEDIMENT BASIN TO PROVIDE TREATMENT OF THE RUNOFF BEFORE IT LEAVES THE CONSTRUCTION SITE OR ENTERS SURFACE WATERS. PERMITTEES MAY COVERT A TEMPORARY SEDIMENT BASIN TO A PERMANENT BASIN AFTER CONSTRUCTION IS COMPLETE. THE TEMPORARY BASIN IS NO LONGER REQUIRED WHEN PERMANENT COVER HAS REDUCED THE ACREAGE OF STRURBED SOIL TO LESS THAN THE (18) ACRES DRAINING TO A COMMON LOCATION, MANN. R. 7009 AT THE ACREAGE OF STRURBED SOIL TO LESS THAN THE (18) ACRES DRAINING TO A COMMON LOCATION, MANN. R. 7009 AT THE ACREAGE OF STRURBED SOIL TO LESS THAN THE (18) ACRES DRAINING TO A COMMON LOCATION, MANN. R. 7009 AT THE ACREAGE OF STRURBED SOIL TO LESS THAN THE (18) ACRES DRAINING TO A COMMON LOCATION, MANN. R. 7009 AT THE ACREAGE OF STRUBBED SOIL TO LESS THAN THE (18) ACRES DRAINING TO A COMMON LOCATION, MANN. R. 7009 AT THE ACREAGE OF STRUBBED SOIL TO LESS THAN THE (18) ACRES DRAINING TO A COMMON LOCATION, MANN. R. 7009 AT THE ACREAGE OF STRUBBED SOIL TO LESS THAN THE (18) ACRES DRAINING TO A COMMON LOCATION, MANN. R. 7009 AT THE ACREAGE OF STRUBBED SOIL TO LESS THAN THE (18) ACRES DRAINING TO A COMMON LOCATION, MANN. R. 7009 AT THE ACREAGE OF STRUBBED SOIL TO LESS THAN THE (18) ACRES DRAINING TO A COMMON LOCATION. 14.3 THE TEMPORARY BASIN MUST PROVIDE LIVE STORAGE FOR A CALCULATE VOLUME OF RUINOF FROM A TWO CHYCAG 24-HOUR STORM FROM EACH ACRE DRAINED TO THE BASIN OR 1,800 CUBIC FEET OF LIVE STORAGE PER ACRE DRAINED, WHICHEVER IS D

14.4 WHERE PERMITTEES HAVE NOT CALCULATED THE TWO (2)-YEAR, 24-HOUR STORM RUNOFF AMOUNT, THE TEMPORARY BASIN MUST PROVIDE 3 500 CURIC FEFT OF LIVE STORAGE PER ACRE OF THE BASINS' DRAINAGE AREA, MINN, R. 70901 14.6 PERMITTEES MUST DESIGN BASIN OUTLETS TO PREVENT SHORT-CIRCUITING AND THE DISCHARGE OF FLOATING DEBRIS.
MINN. R. 70901

UNION. N. 1799)

14.8 PERMITTEES MUST DESIGN THE OUTLET STRUCTURE TO WITHDRAW WATER FROM THE SURFACE TO MINIMIZE THE DISCHARGE OF POLLUTANTS, PERMITTEES MAY TEMPORARILY SUSPEND THE USE OF A SURFACE WITHDRAWAL MECHANISM DURING FROZEN CONDITIONS. THE BASIN MUST INCLUDE A STABILIZED EMERGENCY OVERFLOW TO PREVENT FAILURE OF POND INTEGRITY, BAINN. A 1999

14.7 PERMITTEES MUST PROVIDE ENERGY DISSIPATION FOR THE BASIN OUTLET WITHIN 24 HOURS AFTER CONNECTION TO A SURFACE WATER, (MAN. R. 7810) 14.8 PERMITTEES MUST LOCATE TEMPORARY BASINS OUTSIDE OF SURFACE WATERS AND ANY BUFFER ZONE REQUIRED IN ITEM 23.1. (MINK. R. 7999)

14.9 PERMITTEES MUST CONSTRUCT THE TEMPORARY BASINS PRIOR TO DISTURBING 10 OR MORE ACRES OF SOIL DRAINING TO A COMMON LOCATION, [MINN. R. 7080]

TO A COMMON LOCATION, (MINN. R. 7899)
14.10 WERRER A TEMPORARY SEGMENT BASIN MEETING THE REQUIREMENTS OF ITEM 14.3 THROUGH 14.9 IS INFEASIBLE,
PERMITTEES MUST INSTALL REFECTIVE SEDMENT CONTROLS SUCH AS SMALLER SEDMENT ASSIN SALIONS SEDMENT
WHITE STATE OF THE PROPERTY AND MAY CONSIDER FACTORS SUCH AS SITE SOILS, SLOPE, AND AVAILABLE AREA ON-SITE.
PERMITTEES MUST DOCUMENT THIS DETERMINATION OF INFEASIBILITY IN THE SWEPP, MINN. R. 7809

15.1 PERMANENT STORMWATER TREATMENT SYSTEM, (MINN. R. 7090) 15.1 PERMANENT STORMWATER, TREATMENT STSIBM, MINN. N. 7990)

15.2 PERMITTEES MUST DESIGN THE PROJECT SO ALL STORMWATER DISCHARGED FROM THE PROJECT DURING AND AFTER CONSTRUCTION ACTIVITIES DOES NOT CAUSE A VIOLATION OF STATE WATER QUALITY STANDARDS, INCLUDING NUISANCE CONDITIONS, EROSION IN RECEIVEM CHANNES OR ON ON OWNSTANDE OF ON OF PROPERTIES, OR A SIGNIFICANT AVERSER MIPAGET TO WETLANDS CAUSED BY INUNDATION OR DECREASE OF FLOW, MINN. R. 73691.

**EAST AND A STANDARD AND ON THE PROJECT SULTIMATE DEVELOPMENT REPLACES VEGETATION AND/OR OTHER PERFUOUS SUFFACES CREATING A INTERCREASE OF OR (1) OR MORE ACRES OF CHULLATIVE MIPERATOUS SURFACES CREATING A INTERCREASE OR (1) OR (1) OR MORE ACRES OF CHULLATIVE MIPERATOUS SURFACES (MRM. R. 7369).

15.4 PERMITTEES MUST CALCULATE THE WATER QUALITY VOLUME AS ONE (1) INCH TIMES THE NET INCREASE OF IMPERVIOUS SURFACES GREATED BY THE PROJECT. [MINN. R. 7090]

15.5 PERMITTERS MUST FIRST CONSIDER VOLUME REDUCTION PRACTICES ON-SITE (E.G., INFILTRATION OR OTHER) WHEN DESIGNING THE PERMANENT STORMWATER TREATMENT SYSTEM. IF THIS PERMIT PROHIBITS INFILTRATION AS DESCRIBED IN THIS 15.4 THE PERMIT OR SAY ON SIDER A WAY CONSIDER A WEST SEDIMENTATION BASIN, IN TRATION BASIN OR REGIONAL POND. THIS PERMIT DOES NOT CONSIDER WET SEDIMENTATION BASIN FOR THAT TON BASING THE REGIONAL POND. THIS PERMIT DOES NOT CONSIDER WET SEDIMENTATION BASING THE REGIONAL POND. THIS PERMIT DOES NOT CONSIDER WET SEDIMENTATION BASING THE REGIONAL POND. THIS PERMIT DOES NOT CONSIDER WET SEDIMENTATION BASING THE REGIONAL POND. THE PERMIT DOES NOT CONSIDER WET SEDIMENTATION BASING THE PROMITE OF THE PROMITE OF THE PERMIT POND.

15.5 FOR PROJECTS WHERE THE FULL VOLUME REDUCTION REQUIREMENT CANNOT BE MET ON-SITE, (E.G., THE SITE HAS INFILTRATION PROHIBITIONS), PERMITTEES MUST DOCUMENT THE REASONS IN THE SWPPP. [MINN. R. 7090] 15.7 PERMITTEES MUST DISCHARGE THE WATER QUALITY VOLUME TO A PERMANENT STORMWATER TREATMENT SYSTEM PRIOR TO DISCHARGE TO A SURFACE WATER, FOR PURPOSES OF THIS ITEM, SURFACE WATERS DO NOT INCLUDE MAN-MAN PRIOR STORMWATER TO A PERMANENT STORMWATER TO A PERMANENT STORMWATER TO A PERMANENT STORMWATER TO A PERMANENT STORM THEN TSYSTEM. TIMIN, T. 7991 CONSIDER STATE USING 1 FIRE USING 1 STORMYSTER TO A PERMANENT STORMYSTER TREATMENT SYSTEM, PIMIN. R. 7890)
18.8 WHERE THE PROXIMITY TO BEDROCK PRECLUDES THE INSTALLATION OF ANY OF THE PERMANENT STORMYSTER
TREATMENT PRACTICES REQUIRED BY SECTIONS 15 THROUGH 15, PERMITTEES MUST INSTALL OTHER TREATMENT SUCH AS
GRASSED SWALLES, SMALLER PONDS, OR GRIT CHAMBERS, PRIOR TO THE DISCHARGE OF STORMWATER TO SURFACE
WATERS, (MINN. R. 7890)

WATERS, MINN. R. 7960]

16.5 FOR LINEAR PROJECTS WHERE PERMITTEES CANNOT TREAT THE ENTIRE WATER QUALITY VOLUME WITHIN THE EXISTING RIGHT-OF-WAY, PERMITTEES MUST MAKE A REASONABLE ATTEMPT TO DATAM ADDITIONAL RIGHT-OF-WAY, EASEMENT OR OTHER PERMISSION FOR STORMWATER TREATMENT DURING THE PERMISSION FOR STORMWATER TREATMENT DURING THE PROJECT ELANIMINE PROCESS. DOCUMENTATION OF THESE ATTEMPTS MUST BE IN THE SWYPP, PERMITTEES MUST STILL CONSIDER YOLUME REDUCTION PRACTICES FIRST AS DESCRIBED IN 11TEM 15.6. IF PERMITTEES CANNOT OBTAIN ADDITIONAL RIGHT-OF-WAY, EASEMENT OR OTHER PERMISSION, THEY MUST ADMINISTED THE TREATMENT OF THE WATER QUALITY VOLUME PRIOR TO DISCHARGE TO SURFACE WATERS, MINN.

162. INFILTRATION OPTIONS INCLUDE, BUT ARE NOT LIMITED TO: INFILTRATION ASSINS, INFILTRATION TRENCHES, RAINWATER GARDENS, BIORERESTRION AREA WITHOUT UNDERGRAINS, SWALES WITH IMPERMEABLE CHECK DAMS, AND NATURAL DEPRESSIONS. IF PERMITTEES UTILIZE AN INFILTRATION SYSTEM TO MEET THE REQUIREMENTS OF THIS PERMIT, THEY MUST NCORPORATE THE DESIGN FARAMETERS IN ITEM 53. THROUGH THEN 162.1. PERMITTEES MUST FOLLOW THE INFILTRATION PROHIBITION IN ITEM 15.1.4 ANYTIME AN INFILTRATION SYSTEM IS DESIGNED, INCLUDING THOSE NOT REQUIRED BY THIS PERMIT, DIMN. R. 7800]

16.3 PERMITTEES MUST DESIGN INFILTRATION SYSTEMS SUCH THAT PRE-EXISTING HYDROLOGIC CONDITIONS OF WETLANDS IN THE VICINITY ARE NOT IMPACTED (E.G., INUNDATION OR BREACHING A PERCHED WATER TABLE SUPPORTING A WETLAND, [MINN. R. 799].

(MINN. K. 7999)
IAS PERMITTEES MUST NOT EXCAVATE INFILTRATION SYSTEMS TO FINAL GRADE, OR WITHIN THREE (3) FEET OF FINAL GRADE,
UNITL THE CONTRIBUTING DRAINAGE AREA HAS BEEN CONSTRUCTED AND FULLY STABILIZED UNLESS THEY PROVIDE
RIGOROUS BROSION PREVENTION AND SEDIMENT CONTROLS (E.C., DIVERSION BERMS) TO KEEP SEDIMENT AND RUNOFF
COMPLETELY AWAY FROM THE IMPLITATION AREA. [MINN. R. 7090]

16.5 WHEN EXCAVATING AN INFLITATION SYSTEM TO WITHIN THREE (3) FEET OF FINAL GRADE, PERMITTERS MUST STAKE OF AND MARK THE AREA SO HEAVY CONSTRUCTION VEHICLES OR EQUIPMENT DO NOT COMPACT THE SOIL IN THE INFLITRATION AREA, IMINN. R. 7389]

AREA, [MINN, R. 7890]
18,9 PERMITTEES MUST USE A PRETREATMENT DENGE SUCH AS A VEGETATED FILTER STRIP, FOREBAY, OR WAYER QUALITY
NILET (E.G., ORT) CHAMBER) TO REMOVE SOLIDS, FLOATING MATERIALS, AND OIL AND GREASE FROM THE RUNIOFF, TO THE
MARKHMIN EXTENT PRACTICABLE, BEFORE THE SYSTEM ROLITES STORMWATER TO THE INFILTRATION SYSTEM, (MINN, R. 7890)
18.7 PERMITTEES MUST DESIGN INFILTRATION SYSTEMS TO PROVIDE A WATER QUALITY VOLUME (DALGULATED AS AN
18.5 TARTAROCUS VOLUME) OF DNE (1) INCH OF RUNIOFF, OR ONE (1) INCH MINIST THE VOLUME OF STORMWATER TREATED BY
18.5 TARTAROCUS VOLUME) OF DNE (1) INCH OF RUNIOFF, OR ONE (1) INCH MINIST THE VOLUME OF STORMWATER TREATED BY
18.5 TARTAROCUS VOLUME) OF DNE (1) INCH OF RUNIOFF OR THE STORMWATER TREATED BY
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18.5 TARTAROCUS VOLUME OF THE STORM THE STORM THE STORM THE STORM THE STOR

7090]
16.8 PERMITTEES MUST DESIGN THE INFILTRATION SYSTEM TO DISCHARGE ALL STORMWATER (NOLUDING STORMWATER IN EXCESS OF THE WATER QUALITY VOLUME) ROUTED TO THE SYSTEM THROUGH THE UPPERMOST SOIL SURFACE OR ENGINEERED MEDIA SURFACE WITHIN 8 HOURS, PERMITTEES MUST ROUTE ADDITIONAL FLOWS THAT CANNOT INFILTRATE WITHIN 48 HOURS TO BYPASS THE SYSTEM THROUGH A STABILED DISCHARGE POINT, [MINN. R. 7080] 18.9 PERMITTEES MUST PROVIDE A MEANS TO VISUALLY VERIFY THE INFILTRATION SYSTEM IS DISCHARGING THROUGH THE SOIL SUIREACE OR FILTER MEDIA SURFACE WITHIN 48 HOURS OR LESS, IMINN. R. 79801

16.10 PERMITTEES MUST PROVIDE AT LEAST ONE SOIL BORING, TEST PIT OR INFILTROMETER TEST IN THE LOCATION OF THE INFILTRATION PRACTICE FOR DETERMINING INFILTRATION RATES, [MINN. R. 7990]

INTELLIGIOUS PERGUIDE PUR DELEGIORISMO INFLITIGIUM RALES, (INITIAL, UNU)

14.11 FOR DESIGN PURPOSES, PERMITTEES MUST D'UNDE FIELD MEASURED INFLITATION RATES BY 2.AS A SAFETY FACTOR OR PERMITTEES CAN USE SOIL-BORNIOR RESULTS WITH THE INFLITIATION RATE CHART IN THE MINNESOTA STORMWATER MANUAL TO DETERMINE DESIGN INFLITATION RATES, WHEN SOIL BORNIOS INDICATE TYPE A SOILS, PERMITTEES SHOULD PERFORM FIELD MEASUREMENTS TO VERIFY THE RATE IS NOT ABOVE 8.3 INCHES PERH OUT, THIS PERMIT PROPRISITS INFLITIATION RATE IS ABOVE 9.3 INCHES PERH OUT, MISH PERMIT PROPRISITS INFLITIATION RATE IS ABOVE 9.3 INCHES PERH OUT, MISH PERMIT PROPRISITS INFLITIATION RATE IS ABOVE 9.3 INCHES PERH OUT, MISH PERMIT PROPRISITS INFLITIATION RATE IS ABOVE 9.3 INCHES PERH OUT, MISH PERMIT PROPRISITS INFLITIATION RATE IS ABOVE 9.3 INCHES PERH OUT, MISH PERMIT PROPRISITS INFLITIATION RATE IS ABOVE 9.3 INCHES PERH OUT, MISH PERMIT PROPRISITS INFLITIATION RATE IS ABOVE 9.3 INCHES PERH OUT, MISH PERMIT PROPRISITS INFLITIATION RATE IS ABOVE 9.3 INCHES PERH OUT, MISH PERMIT PROPRISITS INFLITIATION RATE IS ABOVE 9.3 INCHES PERHOUE, MISH PERMIT PROPRISITS INFLITIATION RATE IS ABOVE 9.3 INCHES PERHOUE, MISH PERMIT PROPRISITS INFLITIATION RATE IS ABOVE 9.3 INCHES PERHOUE, MISH PERMIT PROPRISITS INFLITIATION RATE IS ABOVE 9.3 INCHES PERHOUE, MISH PERMIT PROPRISITS INFLITIATION RATE IS ABOVE 9.3 INCHES PERHOUE, MISH PERMIT PROPRISITS INFLITIATION RATE IS ABOVE 9.3 INCHES PERHOUE, MISH PERMIT PROPRISITS INFLITIATION RATE IS ABOVE 9.3 INCHES PERHOUE, MISH PERMIT PROPRISITS INFLITIATION RATE IS ABOVE 9.3 INCHES PERHOUE, MISH PERMIT PROPRISITS INFLITIATION RATE IS ABOVE 9.3 INCHES PERHOUE, MISH PERMIT PROPRISITS INFLITIATION RATE IS ABOVE 9.3 INCHES PERHOUE, MISH PERMIT PROPRISITS INFLITIATION RATE IS ABOVE 9.3 INCHES PERHOUE, MISH PERMIT PROPRISITS INFLITIATION RATE PROPRISITS INCHES PERHOUE, MISH PERMIT PROPRISITS INFLITIATION RATE PROPRISITS INCHES PERHOUE, PROPRISITS INCHES PERHOUE, PROPRISITS INCHES PERHOUE, PROPRISITS INCHES PERHOUE, PROPRISITS INCHES PER

15.13 PERMITTEES MUST DESIGN A MAINTENANCE ACCESS, TYPICALLY EIGHT (8) FEET WIDE, FOR THE INFILTRATION SYSTEM.

(S.14 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS THAT RECEIVE RUNOFF FROM VEHICLE FUELING AND MAINTENANCE AREAS INCLUDING CONSTRUCTION OF INFILTRATION SYSTEMS NOT REQUIRED BY THIS PERMIT, TAINN. R. 78001

PERMIT, [MINN. R. 7080]

16.18 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS NOT REQUIRED BY TH

16.18 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS WHERE INFILTRATING
STORMWATER MAY MOBILIZE HIGH LEVELS OF CONTAMINANTS IN SOIL OR GROUNDWATER, PERMITTEES MUST EITHER
COMPLETE THE MEAS'S CONTAMINATION SCREENING CHECKLIST OR CONDUCT THEIR OWN ASSESSMENT TO DETERMINE TH.
SUITABILITY FOR INFILTRATION. PERMITTEES MUST RETAIN THE CHECKLIST OR ASSESSMENT WITH THE SWPPP, FOR MORE
INFORMATION AND TO ACCESS THE MPCA'S "CONTAMINATION SCREENING CHECKLIST" SEE THE MINNESOTA STORMWATER
MANUAL, MINN. R. 7090]

THE THE PERMIT PROHIBES PERMITEES FROM CONSTRUCTION INFILTRATION SYSTEMS IN AREAS WITH LESS THAN THREE (3) FEET OF SEPARATION DISTANCE FROM THE BOTTOM OF THE INFILTRATION SYSTEM TO THE LEVATION OF THE SEASONALLY SATURATED SOLIS OF THE TOP OF SEPARATION DISTANCE FROM THE BOTTOM OF THE INFILTRATION SYSTEM TO THE LEVATION OF THE SEASONALLY SATURATED SOLIS OF THE TOP OF SEPAROCK, (MINN. R. 7806)

16.18 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS IN AREAS OF PREDOMINATELY HYDROLOGIC SOIL, GROUP TYPE D SOILS (CLAY), [MINN, R, 7090] HYDROLOGIC SOLL GROUP TYPE D SOLLS (CLAY), MINN. R. 7999]
IRJS 114S PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS WITHIN A DRINKING WATER SUPPLY
MANAGEMENT AREA (DWSMA) AS DEFINED IN MINN. R. 4726.5100, SUBP. 13, IF THE SYSTEM WILL BE LOCATED:

A. IN AN EMERGENCY RESPONSE AREA (ERA) WITHIN A DYSMA CLASSIFIED AS HAVING HIGH OR VERY HIGH VULNERABILITY
AS DEFINED BY THE MINNESOTA DEPRATIMENT OF HEALTH, OR

- 8. IN AM ERA WITHIN A DWISMA CLASSIFIED AS MODERATE VALNERABILITY UNLESS A REGULATED MS4 PERMITTEE PERFORMED OR APPROVED A HIGHER LEVEL OF EXMINERATION REVIEW SUPPLICIENT TO PROVIDE A FUNCTIONING TREATMENT SYSTEM AND TO PREVENT ADVENSE IMPACTS TO GROUNDWATER!
- C. DUTSIDE OF AN ERA WITHIN A DWAMA CLASSIFIED AS HAVING HIGH OR YEAR THICH YULKERS A REQULATED MAY PERMITTEE PERFORMED OR APPROVED A HIGHER LEVEL OF ENGINEERING REVIEW SUFFICIENT TO PROVIDE A FUNCTIONING YEARTMENT SYSTEM AND TO PREVENT A OVERSE HIGHER STORMAND A FUNCTIONING YEARTMENT SYSTEM AND TO PREVENT A OVERSE HIGHER STORMAND A FUNCTIONING YEARTMENT SYSTEM AND TO PREVENT A OVERSE HIGHER LEVEL OF ENGINEERING REVIEW? IN THE MINNESOTA STORMWATER MANUAL FOR MORE INFORMATION, (MINN. R. 7891)

16.20 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS IN AREAS WITHIN 1,009 FEET

UPGRADIENT ON TOO PEEL DOWNGRADIEN OF ACTIVE AND TEATURES, MINN, R. 1799]

16.21 THIS PERMIT PROHIBITS FERMITEES FROM CONSTRUCTION DIFFITANTION STEPTISM IN AREAS THAT REGEIVE RUNOFF
FROM THE FOLLOWING INDUSTRIAL FACILITIES NOT AUTHORIZED TO INFILTRATE STORMWATER PLATE TO STORMWATER PLATE FOR THE APPORT
FROM THE PRINT FOR NOUSTRIAL ACTIVITIES, AUTHORIZED SEALANGE FRANCS, SCRAP RECYCLING AND WASTE
RECYCLING FACILITIES HAZARDOUS WASTE TREATMENT, STORAGE, OR DISPOSAL FACILITIES; OR AIR TRANSPORTATION
FACILITIES THAT CONDUCT DECIDING ACTIVITIES, MINN, R. 7309]

17.2 FILTRATION OPTIONS INCLUDE, BUT ARE NOT LIMITED TO: SAND FILTERS WITH UNDERDRAINS, BIOFILTRATION AREAS, SYALES USING UNDERDRAINS WITH IMPERIMEABLE CHECK DAMS AND UNDERGROUND SAND FILTERS, IF PERMITTES UTILIZE A FILTRATION SYSTEM TO MEET THE PERMIANENT STORMWATER TREATMENT REQUIREMENTS OF THIS PERMIT, THEY MUST COMPLY WITH TIEMS 17.3 THROUGH 17.11, BINNIR. R. 7886]

COMPLY WHITH TEMS 1/3. HROUGH 17.11, MINN. R. (1990)

17.19. PERMITTEES MUST NOT INSTALL, FLITER MEDIA UNTIL THEY CONSTRUCT AND FULLY STABILIZE THE CONTRIBUTING DRAINAGE AREA UNLESS THEY PROVIDE RIGOROUS EROSION PREVENTION AND SEGMENT CONTRIOL [E.G., DIVERSION BERNS) TO KEEP SEGMENT AND RUNGF COMPLETELY AWAY FROM THE FILTRATION AREA, (MINN. R. 7690)

17.4 PERMITTEES MUST DESIGN FILTRATION SYSTEMS TO REMOVE AT LEAST 80 PERCENT OF TSS. [MINN. R. 7630] 17.5 PERMITTEES MUST USE A PRETREATMENT DEVICE SUCH AS A VEGETATED FILTER STRIP, SMALL SEDIMENTATION BASIN, WATER QUALITY INLET, FOREBAY OR HYDRODYNAMIC SEPARATOR TO REMOVE SETTLEABLE SOLIDS, FLOATING MATERIALS, AND OLS AND GREASE FROM THE RUNOFF, TO THE MAXIMUM EXTENT PRACTICABLE, BEFORE RUNOFF ENTERS THE FILTRATION SYSTEM, DMINN. R. 7690]

HILINAI ION 9 TO HEM, ISIN'N, N. 7090]
17.6 PERMITTEES MUST DESIGN HILTRATION SYSTEMS TO TREAT A WATER QUALITY VOLUME (CALCULATED AS AN INSTANTANEOUS VOLUME) OF ONE (1) INCH OF RUNOFF, OR ONE (1) INCH MINUS THE VOLUME OF STORMWATER TREATED BY ANOTHER SYSTEM ON THE SITE, FROM THE HET INCREASE OF HERE PERVIOUS USER/ACES GREATED BY THE FROJECT, IMINN. R.

/049/I PRINTIESS NUMT DEBIEN THE FILTATION SYSTEM TO DISCURDED ALL STORMWATER INCLUDING STORMWATER IN THE BEST OF THE WIXTER DIALALTY VOLUME BOOTED TO THE SYSTEM THROUGH THE UPPERMORTS DISCUBIFFACE OR EMBRISHED MEDIA SUBFACE WITHIN 48 HOURS, ADDITIONAL FLOWS THAT THE SYSTEM CANNOT RILTER WITHIN 48 HOURS MUST SYPASS THE SYSTEM OR DISCHARGE THROUGH AN EMBRISHED YOURS OF WITHIN THE SYSTEM AS THE SYSTEM OR DISCHARGE THROUGH AN EMBRISHED YOUR STREAM. 17.8 PERMITTEES MUST DESIGN THE FILTRATION SYSTEM TO PROVIDE A MEANS TO VISUALLY VERIFY THE SYSTEM IS DISCHARGING THROUGH THE SOIL SURFAGE OR FILTER MEDIA WITHIN 48 HOURS, [MINN. R. 7090]

INDUSTRIANDS INCOME IN COLUMN TO A STATE OF THE RESEARCH THE REPORT OF THE RESEARCH THE RESEARCH THE STATE OF THE RESEARCH THE SEASONALLY SATURATED SOILS (OR FROM BEDROCK) AND THE BOTTOM OF THE PROPOSED FILTRATION SYSTEM, JAINN, R. 7090)

17.10 PERMITTEES MUST ENSURE THAT FILTRATION SYSTEMS WITH LESS THAN THREE (3) FEET OF SEPARATION BETWEE SPASONALLY SATURATED SOILS OR FROM BEDROCK ARE CONSTRUCTED WITH AN IMPERMEABLE LINER, IMINN, R, 70901 17.11 THE PERMITTEES MUST DESIGN A MAINTENANCE ACCESS, TYPICALLY EIGHT (8) FEET WIDE, FOR THE FILTRATION SYSTEM. (MINN. R. 7090)

18.1 WET SEDIMENTATION BASIN, [MINN, R. 7090]

18.2 PERMITTEES USING A WET SEDIMENTATION BASIN TO MEET THE PERMANENT STORMWATER TREATMENT REQUIREMENTS OF THIS PERMIT MUST INCORPORATE THE DESIGN PARAMETERS IN ITEM 18.3 THROUGH 18.10, [MINN, R. 7090] 18.3 PERMITTEES MUST DESIGN THE BASIN TO HAVE A PERMANENT VOLUME OF 1,800 CUBIC FEET OF STORAGE BELOW THE OUTLET PIPE FOR EACH AGRE THAT DRAINS TO THE BASIN THE BASIN'S PERMANENT VOLUME MUST REACH A MINIMUM DEPTHOF AT LESST THREE (I) FEET AND MUST HAVE NO DEPTH GREATER THAN 10 FEET. PERMITTEES MUST CONFIGURE THE BASIN TO MINIMUZE SCOUR OR RESUSPENSION OF SOLIDS, [MINN. R, 7880]

18.4 PERMITTERS MUST DESIGN THE BASIN TO PROVIDE LIVE STORAGE FOR A WATER QUALITY VOLUME (CALCULATED AS AN INSTANTANEOUS VOLUME) OF ONE (1) INCH OF RUNOFF, OR ONE (1) INCH MINUS THE VOLUME OF STORMWATER TRAINED. ANOTHER SYSTEM ON THE SITE, FROM THE RET. INCREASE IN IMPERVIOUS SURFACES CREATED BY THE PROJECT TRAINED.

1799)
18.5 PERMITTEES MUST DESIGN BASIN OUTLETS SO THE WATER QUALITY VOLUME DISCHARGES AT NO MORE THAN 5.65 CUBIC FEET PER SECOND (CF3) PER ACRE OF SURFACE AREA OF THE BASIN, [MINN. R. 7899]
18.5 PERMITTEES MUST DESIGN BASIN OUTLETS TO PREVENT SHORT-CIRCUITING AND THE DISCHARGE OF FLOATING DEBRIS. BASIN OUTLETS MUST HAVE ENERGY DISSIPATION, [MINN. R. 7890]

18.7 PERMITTEES MUST DESIGN THE BASIN TO INCLUDE A STABILIZED EMERGENCY OVERFLOW TO ACCOMMODATE STORM EVENTS IN EXCESS OF THE BASIN'S HYDRAULIC DESIGN. [MINN. R. 7080] 18.8 PERMITTEES MUST DESIGN A MAINTENANCE ACCESS, TYPICALLY EIGHT (8) FEET WIDE, FOR THE BASIN. [MINN. R. 7090] 18.9 FERMITTEES MUST LOCATE BASINS OUTSIDE OF SURFACE WATERS AND ANY BUFFER ZONE REQUIRED IN ITEM 23.11.
PERMITTEES MUST DOSION BASINS TO AVOID DRAINING WATER FROM WETLANDS UNLESS THE IMPACT TO THE WETLAND
COMPLIES WITH THE REQUIREMENTS OF SECTION 22 IMININ. R. 73001

18,10 PERMITTEES MUST DESIGN BASINS USING AN IMPERMEABLE LINER IF LOCATED WITHIN ACTIVE KARST TERRAIN. [MINN. R. 7890]

19.1 REGIONAL WET SEDIMENTATION BASINS. [MINN. R. 7090]

19.1 REGIONAL, WET SEDIMENTATION BASINS, BINNA. R. 17991

19.2 WHEN THE ENTIRE WATER GUALILITY VOLUME CANNOT BE RETAINED ONSITE, PERMITTEES CAN USE OR CREATE REGIONAL WET SEDIMENTATION BASINS PROVIDED THEY ARE CONSTRUCTED BASINS, NOT A NATURAL WETLAND OR WATER BODY, WETLANDS USED AS REGIONAL BASINS MUST BE MITCATED FOR, SEE SECTION 22.7 THE CONTER MINST SENSURE THE REGIONAL BASIN CONTROL BASINS CONTROL BASINS BENEFACE OF A REGIONAL BASIN CONTROL BASINS BENEFACE OF A REGIONAL BASIN CONTROL BASINS BENEFACE OF A REGIONAL BASIN WITCH BASINS BENEFACE BASINS TO THE REGIONAL BASIN WITCH BASINS BENEFACE BASINS TO THE REGIONAL BASIN WITCH BASIN BASI

20.1 SWPPP AVAILABILITY. [MINN. R. 7090]

20.2 PERMITTEES MUST KEEP THE SWPPP, INCLUDING ALL CHANGES TO IT, AND INSPECTIONS AND MAINTENANCE RECORDS AT THE SITE DURING NORMAL WORKING HOURS BY PERMITTEES WHO HAVE OPERATIONAL CONTROL OF THAT PORTION OF THE SITE, [MINN. R. 7990]

21.1 TRAINING REQUIREMENTS. [MINN. R. 7090]

21.2 PERMITTEES MUST ENSURE ALL OF THE FOLLOWING INDIVIDUALS 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 THIS 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. ONE OF THESE INDIVIDUALS MUST BE AVAILABLE FOR AN ONSITE INSPECTION WITHIN 72 HOURS UPON REQUEST BY THE MPCA.

C. INDIVIDUAL S PERFORMING OR SUPERVISING THE INSTALLATION, MAINTENANCE AND REPAIR OF BMPS, IMINN, R. 70901 G. INDIVIDUALS PERMONEND OR SUPERVISING THE INSTALLATION, MAINTERINADE AND REPART OF BIRTS, IDIDINA, A. 1997, 27.3 PERMITTEES MUSE ENSURE INDIVIDUALS IDIDINIFIED IN SECTIOR 21 RECEIVE TRAINING FROM LOCAL, STATE, FEDERAL AGENCIES, PROFESSIONAL ORGANIZATIONS, OR OTHER ENTITIES WITH EXPERTISE IN EROSION PREVENTION, SEGMENT CONTROL, PERMANENT STORMWATER TREATMENT AND THE MINNESOTA NPOESIODS CONSTRUCTION STORMWATER PERMIT PERMITTEES MUST ENSURE THESE MONDIQUALS ATTENDA REPRESIDENT FARMING COURSE EVERT YRREE (5) YEARS, MININ, R.

24.1 GENERAL PROVISIONS, IMINN, R. 7090]

24.2 IF THE MPCA DETERMINES THAT AN INDIVIDUAL PERMIT WOULD MORE APPROPRIATELY REGULATE THE CONSTRUCTION ACTIVITY, THE MPCA MAY REQUIRE AN INDIVIDUAL PERMIT TO CONTINUE THE CONSTRUCTION ACTIVITY, OVERAGE LUNGS THE SECRET OF THE SECRET PERMIT WILL REMAIN IN FEFECT UNTIL THE MPCA ISSUES AN MODIFICATION TO MAINTENANCE TO 10.210, SUBP. 6] 24.3 IF THE PERMITTEE CANNOT MEET THE TERMS AND CONDITIONS OF THIS GENERAL PERMIT, AN OWNER MAY REQUEST AN INDIVIDUAL PERMIT, IN ACCORDANCE WITH MINN. R. 7001.0210 SUBP. 8. [MINN. R. 7001.0210, SUBP. 8] 24.4 ANY INTERESTED PERSON MAY PETITION THE MPCA TO REQUIRE AN INDIVIDUAL NPDES/SDS PERMIT IN ACCORDANCE WITH 40 CFR 122.28[8/3]. [40 CFR 122.28[8/3]]

24.5 PERMITTEES MUST MAKE THE SWPPP, INCLUDING ALL INSPECTION REPORTS, MAINTENANCE RECORDS, TRAINING RECORDS, AND OTHER INFORMATION REQUIRED BY THIS PERMIT, AVAILABLE TO FEDERAL, STATE, AND LOCAL OFFICIALS WITHIN THREE (3) DAYS UPON REQUEST FOR THE DURATION OF THE PERMIT AND FOR THREE (3) YEARS FOLLOWING THE NIMIN. R. 7809.

24.8 PERMITTEES MAY NOT ASSIGN OR TRANSFER THIS PERMIT EXCEPT WHEN THE TRANSFER OCCURS IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF ITEM 3.7 AND 3.8. [MINN. R. 7080] THE APPLICABLE REQUIREMENTS OF ITEM 3.7 AND 3.8, IMINN. R. 7080]
AZ, NOTHING IN THIS PERMIT MUST BE CONSTRUCTO TRELEVE THE PERMITTIES FROM GIVIL OR CRIMINAL PENALTIES FOR NONCOMPLIANCE WITH THE TERMS AND CONDITIONS PROVIDED HERBIH, NOTHING IN THIS PERMIT MUST BE CONSTRUCTO TO PRECLIVE THE INITIATION OF ANY LEGAL ACTION OF RELEVE THE PERMITTEES FOM ANY RESPONSIBILITIES, LIABLITIES, OR PENALTIES TO WHICH THE PERMITTEES ISARE OR MAY BE SUBJECT TO UNDER SECTION 31 OF THE CLEAN WATER ACT AND MINN. 3TA, SECT. 136 AND 16, AS AGENOMED IN PERMITTEES HE FOLD LABLITIES ACCURRING ON THOSE PORTIONS OF A SITE WHICH THE PERMITTAB SECTION 31 OF THE CLEAN WATER ACT ACTIVITIES OCCURRING ON THOSE PORTIONS OF A SITE WHICH THE PERMITTAB SECT TRANSFERRED TO ANOTHER PARTY AS REQUIRED IN HIM 43, 70 RT HE PREMITTEES HE NOT AS REQUIRED IN HIM 43, 70 RT HE PREMITTEES HE NOT AS REQUIRED IN HEM 37, OR THE PREMITTEES HE NOT AS REQUIRED IN HEM 37, OR THE PREMITTEES HAVE SUBMITTED THE NOT AS REQUIRED IN HIM 43, 70 RT HE PREMITTEES HAVE SUBMITTED THE NOT AS REQUIRED IN HIM 43, 70 RT HE PREMITTEES HAVE SUBMITTED THE NOT AS REQUIRED IN SECTION 4, RIMIN 7, 7300 AS REQUIRED IN TERM 3.7 OR THE PERMIT HERS HAVE SUBMITTED I THE NOTS OF AS REQUIRED IN SECTION 4. (MINN. AT ALL 28.8 THE PROVISIONS OF THIS PERMIT ARE SEVERABLE. IF ANY DOMOSION OF THIS PERMIT TO ANY CIRCUMSTANCES IS HELD INVALID, THE APPLICATION OF SUCH PROVISION TO OF SIGN PROVISION TO OFFICE OF THE APPLICATION OF SUCH PROVISION TO OTHER CIRCUMSTANCES, AND THE REMAINDER OF THIS PERMIT MUST NOT BE AFFECTED THEREY, MINN. R. 7800]

24.3 THE PERMITTEES MUST COMPLY WITH THE PROVISIONS OF MINN. R. 7001.0160, SUBP. 3 AND MINN. R. 7001.1090, SUBP. 1(A), 1(B), 1(J), 1(J), 1(K), AND 1(L), (MINN. R. 7090) 119B, 10C, 11th, 10, 140, 140, AND (14), DIMIN. R. 7990]
24.10 THE PERMITTEES MUST ALLOW ACCESS AS PROVIDED IN 40 GFR 122.41(I) AND MINN. STAT. SECT. 115.04. THE
PERMITTEES MUST ALLOW REPRESENTATIVES OF THE MPCA OR ANY MEMBER, EMPLOYEE OR AGENT THEREOF, WHEN
AUTHORIZED BY IT, UPON PRESENTATION OF GREDENTIALS, TO ENTER UPON ANY PROPERTY, PUBLIC OR PRIVATE, FOR THE
PURPOSE OF OR DATAINING INFORMATION OR RECARMANTON OR TECHNOLOGY OR CONDUCTIONS SURVEYS OR INVESTIGATIONS, [40]

THE THE PURPOSES OF MINI. R, 7893 AND OTHER DOCUMENTS THAT REFREENCE SPECIFIC SECTIONS OF THIS PERMIT, "STORMMATER DISCHARGE DESIGN REQUIREMENT" CONRESSONDED TO SECTIONS A 6 ND 14 THROUGH 41; "CONSTRUCTION ACTIVITY REQUI

PLOWE

6776 LAKE DRIVE SUITE 110 LINO LAKES, MN 5501

PHONE: (651) 361-821 DRAWN BY: CHECK B' JOB NO: DATE: 19-1882 7-15-20

SSTOWN ROLLING AC THIRD ADDITION CITY OF HAM LAKE, MN ATER POLLUTION PREVENTI

SHEET

C4.1

CITY OF HAM LAKE, ANOKA COUNTY, MN SWPPP

PROJECT NAME

PROJECT LOCATION

LATITUDE: 45.4111 LONGITUDE: -94.0525

GENERAL CONTRACTOR

RRATIVE - PERMANENT STORMWATER TREATMENT SYSTEMS

SITE IMPERVIOUS AREAS

	CONSTRUCTION	CONSTRUCTION
TOTAL SITE AREA	100± ACRES	
TOTAL ESTIMATED IMPERVIOUS	4.3 ACRES	13.6 ACRES
TOTAL ESTIMATED PERVIOUS	9.3 ACRES	86.4 ACRES

TOTAL DISTURBED AREA

-45,5 ACRES
THE PROJECT WILL BE PHASED SO THERE WILL NOT BE GREATER THAN 50 ACRES OF DISTURBED AREA AT ANY ONE TIME.

SITE MAP WEXISTING AND FINAL GRADES AND DESIGN CALCULATIONS SEE "STORMWATER DRAINAGE REPORT" FOR EXISTING AND PROPOSED AREA MAPS, DENOTING DRAINAGE AREA BOUNDARIES, DIRECTIONS OF FLOW, AND DISCHARGE POINTS WHERE STORMWATER LEAVES THE SITE.

NAME OF WATER BODY	TYPE OF WATER BODY	SPECIAL WATER	IMPAIRED WATER
UNNAMED WETLAND	WETLAND	NO	NO
DNR WETLAND 398W	WETLAND	NO	NO
CD 58-6	DITCH	NO	No
CD 28	DITCH	NO	NO

BUFFER TO SURFACE WATER

YES NO NIA TO THE SURFACE WATER, IS A 50-FT NATURAL BUFFER ADJACENT TO THE SURFACE WATER PRESERVED?

TO THE SURFACE WATER PRESERVED?

NOTE: NATURAL BUFFERS ARE NOT REQUIRED ADJACENT TO ROAD DITCHES,

JUDICIAL DITCHES, COLUNTY DITCHES, STORMWATER CONVEYANCE CHANNELS,

STORM DEARN HULTES, AND SEDIMENT BASINS.

A) THERE ARE NUMBEROUS WETLANDS ON THE SITE FROM WHICH A SOFT

NATURAL BUFFER CANNOT BE PRESERVED, REDUINDANT SEDIMENT CON

MEASURES ARE PROVIDED IN THOSE LOCATIONS.

TEMPORARY SEDIMENTATION BASINS

IF TEN (16) OR MORE ACRES OF DISTURBED SOIL DRAIN TO A COMMON YES NO NAT THE RUNOF BEFORE IT LEAVES THE CONSTRUCTION SITE OR ENTERS SURFACE WATERS?

A) THE CONTRACTOR WILL PROVIDE TEMPORARY SEDIMENTATIONS IF 10 OR MORE ACRES OF DISTURBED SOIL DRAIN TO A COMMON LOCATION.

INFILTRATION FEASIBILITY

ARE THERE ANY INFILTRATION RESTRICTIONS FOR THE SITE (SEE 16.14
YES NO NA THROUGH 16.217 A) THE SITE HAS A HIGH SEASONAL WATER TABLE SO INFILTRATION IS NOT FEASIBLE IN ALL LOCATIONS.

ADDITIONAL STORMWATER MITIGATION MEASURES

YES NO . EARLOCATURE ANY STORMWATER MITIGATION MEASURES PER:

- ENVIRONMENTAL REVIEW DOCUMENT?
- ENDANGERED SPECIES REVIEW?

 OTHER LOCAL, STATE OR FEDERAL REVIEW? I UIHER LOUAL, STATE ON FEDERAL REVIEWY.

IF YES TO ANY OF THE ABOVE, DESCRIBE THE MITIGATION MEASURES. FOR PURPOSES OF THIS PERMIT, MITIGATION MEASURES MEANS ACTIONS OF MECESSARY TO AVOID, MIRMORE, OR MITIGAT EFFOR MIRMORY SELECTION OF MIR

DOGUMENTATION OF TRAINED INDIVIDUALS

ADAM GINKEL PLOWE ENGINEERING, I 8776 LAKE DRIVE LINO LAKES MN 55014 (551) 351-9234 adam@plowe.com

B. INDIVIDUAL(S) OVERSEEING IMPLEMENTATION OF, REVISING ANDIOR AMENDING THE SWPPP AND INDIVIDUALS PERFORMING INSPECTIONS FOR THE PROJECT. ONE OF THESE INDIVIDUALS MUST BE AVAILABLE FOR AN ONSITE INSPECTION WITHIN 72 HOURS UPON REQUEST BY THE MPCA. [MINN. R. 7090]

145mm	
COMPANY	 TBD - WHEN INFORMATION BECOMES
ADDRESS 1	AVAILABLE, CONTRACTOR TO PROVIDE
ADDRESS 2	 INFORMATION TO CITY OF HAM LAKE AN
PHONE	 CCWD & UPDATED SWPPP ACCORDINGL
EMAIL	

ON TO CITY OF HAM LAKE AND

NAME TBD - WHEN INFORMATION BECOMES AVAILABLE, CONTRACTOR TO PROVI

LONG TERM OPERATION AND MAINTENANCE OF PERMANENT STORMWATER FACILITIES THE PROPOSED STORMWATER MANAGEMENT FEATURES FOR THIS SITE INCLUDES INFILTRATION BASINS AND STORMWATER PONDS - THESE WILL BE OPERATED AND MAINTAINED BY THE CITY OF HAM LAKE.

TEM	MNDOT SPECIFICATION/NOTES	
SOD	3878	
SEED™	3876	
* FOR TURF ESTABLISHMENT COMMERCIAL TURF RESIDENTIAL TURF	MNDOT MIX 25-131 (220 LBS/ACRE) MNDOT MIX 25-131 (120 LBS/ACRE)	
TEMPORARY FALL COVER SPRINGISUMMER SOIL-BUILDING COVER 1-2 YEARS COVER 2-5 YEARS COVER	MNDOT MIX 21-112 (100 LBS/ACRE) MNDOT MIX 21-111 (100 LBS/ACRE) MNDOT MIX 21-113 (110 LBS/ACRE) MNDOT MIX 22-111 (30.6 LBS/ACRE) MNDOT MIX 22-112 (40 LBS/ACRE)	
MULCH	3882 (TYPE 1 - DISC ANCHORED)	
HYDROMULCH	3884	
FERTILIZER	3881	
WOOD FIBER BLANKET	3885 (CATEGORY 2)	

** SEEDED AREAS SHALL BE EITHER MULCHED OR COVERED BY FIBROUS BLANKETS TO PROTECT SEEDS AND LIMIT EROSION.

QUANTITIES - ESTIMATED QUANTITIES FOR EROSION AND SEDIMENT CONTROL MEASURES

TYPE	QTY	UNIT
SILT FENCE	J	LINEAR FEET
BIO-ROLLS		EACH
RIP-RAP W. GEO-FABRIC		CUBIC YARDS
CATCH BASIN INLET PROTECTION		EAGH
STABILIZED (SODDED) OVERFLOW		EACH
EROSION CONTROL BLANKET		SQUARE YARDS
SEED & MULCH (GENERAL)		ACRE
ROCK CONSTRUCTION ENTRANCE EXIST, GRAVEL DRIVE TO BE USED AS ROCK ENTRANCE		EACH

NARRATIVE - TIMING FOR INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES

- NARRATIVE TIMING FOR INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES

 1. A COPY OF THE APPROVED BROSSION AND SEDIMENT CONTROL PLAN AND SWPPP
 MUST BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES.

 2. CONTRACTOR SHALL INSTALL SILT FENCE AS SHOWN ON PLAN.

 2.1. ADDITIONAL SILT FENCE MAY BE NECESSARY IF LOCAL CONDITIONS REQUIRE.

 2.2. THE CONTRACTOR SHALL MAINTAIN SILT FENCE, INCLUDING THE REMOVAL OF ACCUMULATED SEDIMENT, THROUGH COMPLETION OF BUILDING OTHER WORTHOUTH OF ACCUMULATED SEDIMENT, THROUGH COMPLETION OF BUILDING OTHER WORTHOUTH OF STRUCTION.

 3. CONTRACTOR SHALL PERFORM SITE GRAPPE WILL ENTERFER SITE.

 4. CONTRACTOR SHALL PREPORTS SITE GRAPPE WILL ENTERFER SITE.

 5. CONTRACTOR SHALL PREPORTS SITE GRAPPE WILL ENTERFEAT SITE.

 6. CONTRACTOR SHALL PREPORTS SITE GRAPPE WILL ENTERFEAT SITE.

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- CEASES,

 5.2. CONTRACTOR TO PROVIDE TEMPORARY SEDIMENTATION BASINS AS REQUIRED IN SECTION 14.1 THROUGH 14.10.

 5. CONTRACTOR TO SHALL PAY SPECIAL ATTENTION TO ADJACENT PROPERTY LINES TO ENSURE THE REDISION CONTROL PRACTICES INPLACE IN THOSE AREAS PREVENT MIGRATION OF SEDIMENT ONTO ADJACENT PROPERTIES.

 ALL EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS OR IMPLEMENTED BY THE FIELD SHALL BE IN ACCORDANCE WITH THE CITY AND NPDES PHASE I PERMIT REQUIREMENTS.
- PRABE II PERMIT REQUIREMENTS.
 CONTRACTOR TO PROVIDE ADDITIONAL SILT FENCE, BIOROLLS, EROSION CONTROL
 BLANKET, OR OTHER APPROVED EQUAL FOR ANY SLOPES THAT APPEAR TO BE
 FAILING
- FAILING

 9. CONTRACTOR TO STABILIZE SOIL STOCKPILES; STABILIZATION SHALL BE INITIATED HIMMEDIATELY

 10. CONTRACTOR SHALL FINAL GRADE SWALE AREAS UPON STABILIZATION OF
- UPSTREAM AREAS.

 1. CONTRACTOR SHALL BE RESPONSIBLE TO SWEEP/SCRAPE ADJACENT STREETS
 WHEN MATERIALS OR DEBRIS HAVE WASHED/FLOWED ONTO ADJACENT STREETS OR

AS DIRECTED BY CITY

12. COORDINATE SMALL UTILITIES INSTALLATIONS (GAS, PHONE, ELECTRIC, CABLE, FIBEROPTIC, ETC.) AFTER CURB & GUTTER INSTALLATION.

IF DEWATERING IS REQUIRED, PROVIDE WELL-FIELD LOCATION. RATES, DISCHARGE LOCATION, SCHEDULE AND QUANTITIES TO CCWD PRIOR TO ANY DEWATERING.

NPDES DEFINITIONS

"BEST MANAGEMENT PRACTICES (BMPS)" MEANS THE MOST EFFECTIVE AND PRACTICABLE MEANS OF PROSINO PREVENTION AND SEDMENT CONTROL, AND WAYER CULLLITY MANAGEMENT PRACTICES THAT ARE THE MOST EFFECTIVE AND PRACTICABLE MEANS OF TO CONTROL, PREVENT, AND MINIMIZE DEGRADATION OF SURFACE WATER, MICLULING AVOIDANCE OF IMPACTS, CONSTRUCTION-PASSING, MINIMIZENCE THE LOTOR OF THE SOIL. AREAS ARE EXPOSED, PROHIBITIONS, POLLUTION PREVENTION THROUGH GOOD HOUSEKEEPING, AND OTHER MANAGEMENT PRACTICES PUBLISHED BY STATE OR DESIGNATED AREA-WIDE PLANNING AGENCIES. [MINN: R, 7090]

GOOD HOUSENEETHING, AREA OF THIS IN MARIAGEMENT. FYAUL HERE POULSHELD BY STATE ON DESIGNATED AREA MORE PLANNING AGENCIES, (MINN. R. 7809).

"CONSTRUCTION ACTIVITY" MEANS ACTIVITIES INCLIDING CLEANING, GRADING, AND CEXCAVATING, IT ALT RESULT IN LAND DISTURBANCE OF EQUAL TO OR GREATER THAN ONE AGRE, INCLIDING THE DISTURBANCE OF LESS THAN ONE AGRE OF TOTAL LAND AREA THAT IS PART OF A LARGER OR MONOWING HAN OF DEVELOPMENT OR SALE IF THE LARGER COMMON PLAN OF ADMINISTRATIVE DESTRUCTION OF REACHER THAN ONE AGRE. THIS TOTAL COLVER, BOTH VEREITATIVE AND NON-MEDITATIVE, OR THE EXISTING SOLL COVER, BOTH VEREITATIVE AND NON-MEDITATIVE, OR THE EXISTING SOLL COVER, BOTH VEREITATIVE AND NON-MEDITATIVE, OR THE EXISTING SOLL COVER, BOTH VEREITATIVE, AND NON-MEDITATIVE, OR THE EXISTING SOLL COVER, BOTH VEREITATIVE, CONSTRUCTION ACTIVITY OCES NOT INCLIDE A DISTURBANCE TO THE LAND OF LESS THAN FIVE ACRES FOR THE PURPOSE OF ROTHINE MAINTENANCE PERFORMENT OF SEDIMENT, CONSTRUCTION ACTIVITY OCES NOT INCLIDE ACTIVITIES SUCH A MAINTAIN THE GOIGINAL LINE AND GRADE, HYDRAULIC CAPACITY, AND ORIGINAL PURPOSE OF THE THE FACILITY. ROUTINE MAINTENANCE DOES NOT INCLIDE ACTIVITIES SUCH AS REPAIRS, REPLACEMENT AND OTHER TYPES OF ROW-ROUTINE MAINTENANCE. PAVEMENT REPAIRS, REPLACEMENT AND OTHER TYPES OF ROW-ROUTINE MAINTENANCE. PAVEMENT REPAIRS, REPLACEMENT AND OTHER TYPES OF ROW-ROUTINE MAINTENANCE. PAVEMENT REPAIRS, REPLACEMENT AND OTHER TYPES OF ROW-ROUTINE MAINTENANCE. PAVEMENT REPAIRS, REPLACEMENT AND OTHER TYPES OF ROW-ROUTINE MAINTENANCE. PAVEMENT REPAIRS, REPLACEMENT AND OTHER TYPES OF ROW-ROUTINE MAINTENANCE. PAVEMENT REPAIRS, REPLACEMENT AND OTHER TYPES OF ROW-ROUTINE MAINTENANCE. PAVEMENT REPAIRS, REPLACEMENT AND OTHER TYPES OF ROW-ROUTINE MAINTENANCE. PAVEMENT REPAIRS, REPLACEMENT AND OTHER TYPES OF ROW-ROUTINE MAINTENANCE. PAVEMENT REPAIRS, REPLACEMENT AND OTHER TYPES OF ROW-ROUTINE SUCH AND SALE AND THE PAULITY. THE PAULITY REPAIRS AND THE REMOVAL OF SURFACE OR GROUND WATER TO DON'S AND THE PAULITY.

"POEMATERING MEASY THE REMOVAL OF SURFACE OF RIGHTON AUTHOR LOTTE TO DRY ANDIOR SOLIDIFY A CONSTRUCTION SITE TO ENABLE CONSTRUCTION ACTIVITY. DEVATERING WAS REQUIRED AND AUTHOR OF A CONSTRUCTION SITE OF ENABLE CONSTRUCTION ACTIVITY. DEVATERING WAS REQUIRED AND AUTHOR OF A CONTRACT RESOURCES WAS REPORTED FOR A CONTRACT OF A

[MINN. R. 700]
"GENERAL CONTRACTOR" MEANS THE PARITY WHO SIGNS THE CONSTRUCTION
CONTRACT WITH THE OWNER TO CONSTRUCT THE ENTIRE PROJECT DESCRIBED IN THE
FINAL PLANS AND SPECIFICATIONS. WHERE THE CONSTRUCTION PROJECT INVOLVES
MORE THAN ONE CONTRACTOR, THE GENERAL CONTRACTOR IS THE PARTY RESPONSING
FOR MANAGING THE ENTIRE PROJECT ON BEHALT OF THE OWNER, IN SOME CASES, THE
OWNER IS THE GENERAL CONTRACTOR. IN THESE CASES, THE OWNER SIGNS THE PERMY
APPLICATION AS THE OPERATOR AND SECOMES THE SIGN FERMITTEE, MINN. R. 7393) APPLICATION AS THE O'ENATOR AND BECOMES THE SOLE PERMIT IEE, MINN. F. 1999)
"GROUNDINATER" MEANS THE WATER CONTAINED BELOW THE SURFACE OF THE EARTH
IN THE SATURATED ZONE INCLUDING, WITHOUT LIMITATION, ALL WATERS WHETHER
UNDER COMPINED, UNCONPINIED, OR PERCHED COMDITIONS, IN MEAR SURFACE
UNCONSCILIATED SEDIMENT OR REGOLITH, OR IN ROCK FORMATIONS DEEPER
UNCONSCILIATED SEDIMENT OR REGOLITH, OR IN ROCK FORMATIONS DEEPER
UNCONSCILIATED SEDIMENT OR REGOLITH, OR IN ROCK FORMATIONS DEEPER
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UNCONSCILIATED SEDIMENT OR REGOLITH, OR IN ROCK FORMATIONS DEEPER
UNCONSCILIATED SEDIMENT OR REGOLITH OR REG

WINER FACT SHEET" MEANS AN MPCA FACT SHEET AVAILABLE ON THE MPCA UCTION STORMWATER WEBSITE FOR PERMITTEES TO GIVE TO HOMEOWNERS AT

A. PREPPING THE SOIL FOR VEGETATIVE OR NON-VEGETATIVE STABILIZATION; OR B. APPLYING MULCH OR OTHER NON-VEGETATIVE PRODUCT TO THE EXPOSED SOIL AREA;

C. SEEDING OR PLANTING THE EXPOSED AREA; OR

D. STARTING ANY OF THE ACTIVITIES IN A - C ON A PORTION OF THE AREA TO BE STABILIZED, BUT NOT ON THE ENTIRE AREA; OR E. FINALIZING ARRANGEMENTS TO HAVE STABILIZATION PRODUCT FULLY INSTALLED IN COMPLIANCE WITH THE APPLICABLE

DEADLINE FOR COMPLETING STABILIZATION. [MINN. R. 7090]

DEADLINE FOR COMPLETING STABILIZATION, [MINN. R. 7800]
"IMPERVIOUS SUPFACE" MEANS A CONSTRUCTED HARD SUBFACE THAT EITHER
PREVENTS OR RETARDS THE ENTRY OF WATER INTO THE SOIL AND CAUSES WATER TO
RUM OFF THE SUFFACE IN GREATER GUANTITIES AND AT AN INTERSASED RATE OF FLOW
THAN PRIOR TO DEVELOPMENT. EXAMPLES INCLUDE ROOFFOPS, SIDEWALKS,
DRIVEWAYS, PARKING LOTS, AND CONCRETE, SAPPALT, OR GRAZUE ROADS, BRIDGES
OVER SURFACE WATERS ARE CONSIDERED IMPERVIOUS SURFACES, [MINN. R. 7880]

"NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)" MEANS THE PROGRAM FOR ISSUING, MODIFYING, REVOKING, REISSUING, TERMINATING, MONITORING, AND ENFORCING PERMITS UNDER THE CLEAN WATER ACT, AS AMENDED (33 U.S.C. 1251 E SEQ. SECTION 1342 AND 40 CFR PARTS 122, 123, 124 AND 450), [MINN. R. 7690]

"NATURAL BUFFER" MEANS AN AREA OF UNDISTURBED COVER SURROUNDING SURFACE WATERS WITHIN WHICH CONSTRUCTION ACTIVITIES ARE RESTRICTED. NATURAL BUFFER INCLUDES THE VEGETATION, EXPOSED ROCK, OF BARREN GROUND THAT EXISTS PRIOR TO COMMENCEMENT OF EARTH-NOSTURBING ACTIVITIES. [MINN. R. 7890] NOTICE OF TERMINATION (NOT)" MEANS THE FORM (ELECTRONIC OR PAPER) REQUIRED FOR TERMINATING COVERAGE UNDER THE CONSTRUCTION GENERAL PERMIT, (MINN. R. ""OPERATOR" MEANS THE PERSON (USUALLY THE GENERAL CONTRACTOR), FIRM, GOVERNMENTAL AGENCY, OR OTHER ENTITY DESIGNATED BY THE OWNER WHO HAS DAY DO AY OPERATIONAL CONTROL ANDIOR THE ABILITY TO MODIFY PROJECT HANDS AND SPECIFICATIONS RELATED TO THE SWAPP. THE PERMIT APPLICATION MUST LIST THE OPERATOR AS A PERMITTEE, SUBCONTRACTORS HERED BY AND UNDER SUPERVISION OF THE GENERAL CONTRACTOR ARE MOT OPERATORS. (MINNER, 7.099)

THE GENERAL CONTRACTOR ARE NOT OPERATORS. JIMMN. R. 7989]
"OWNER" MEANS THE PERSON, PRIM, GOVERNMENTAL AGENCY, OR OTHER ENTITY
POSSESSING THE TITLE OF THE LAND ON WHICH THE CONSTRUCTION ACTIVITIES WILL
COULD OR, IF THE CONSTRUCTION ACTIVITY IS FOR A LEASE, EASEMENT, OR MINERAL
RIGHTS LIGENSE HOLDER, THE PARTY OR INDIVIDUAL LIGHTIEFO AS THE LEASE,
EASEMENT OR MINERAL RIGHTS LIGENSE HOLDER; OR THE CONTRACTING GOVERNME!
AGENCY RESPONSIBLE FOR THE CONSTRUCTION ACTIVITY, HAINER, 7080]

AGENCY RESPONSIBLE FOR THE COSTS THAT WILL PREVENT SOIL FAILURE UNDER
EROSSNE CONDITIONS. SEAMPLES INCLUDE: GRAVEL, CORRETE, FREISHINGLOVER, OR
OTHER LANDSCAPED MATERIAL HAT WILL PREVENT SOIL FAILURE UNDER
PERMITTES MUST ESTABLISH A UNFORM FERENNAL VOCETATIVE COVER LEE, EVERLY
DISTRIBUTES WHITHOUT LARGE BARE AREAS WITH A DENSITY OF PERCENT OF THE
NATIVE BACKGROUND VEGETATIVE COVER ON ALL AREAS NOT COVERED BY PERMANENT
STRUCTURES, OR EQUIVALENT PERMANENT STABLE AND TO OVERED BY PERMANENT
COVER DOES NOT INCLIDE TEMPORAPET WHAT SOLD HAS WOOD PREER BLANKET, MULCH,
AND ROLLED EROSION CONTROL PRODUCTS. BINNER, R 7989

ARD NOLLED ENGINE OON HOLF PRODUCTS, IGNIME. A CHIEF AND THE RENTLY "PERMITTEES" HEARDS THE PERSONS, JERM, OCVERNMENTAL AGENCY, OR OTHER ENTITY IDENTIFIED AS THE OWNER AND OPERATOR ON THE APPLICATION SUBMITTED TO THE MPCA AND ARE RESPONSIBLE FOR COMPLIANCE WITH THE TERMS AND CONDITIONS OF THIS PERMIT, [MINN. R. T090]

THIS PERMIT. [MINN. K. 1995]
"PROLECTIS" MEANS ALL CONSTRUCTION ACTIVITY PLANNED ANDIOR CONDUCTED
UNDER A PARTICULAR PERMIT. THE PROJECT OCCURS ON THE SITE OR SITES DESCRI
IN THE PERMIT APPLICATION, THE SYMPPP AND IN THE ASSOCIATED PLANS,
SPECIFICATIONS AND CONTRACT DOCUMENTS. [MINN. R. 7895]

"PUBLIC WATERS" MEANS ALL WATER BASINS AND WATERCOURSES DESCRIBED IN MINN. STAT, SECT, 1030,005 SUBP. 16, [MINN. R. 7090]

"SEDIMENT CONTROL" MEANS METHODS EMPLOYED TO PREVENT SUSPENDED SEDIMENT IN STORMWATER FROM LEAVING THE SITE (E.G. SILT FENCES, COMPOST LOGS AND STORM DRAIN INLET PROTECTION), IMINIA, R. 7890]

STOKM DIGHT WILLEY PROTECTION, DIGHTS, RE-1999

"STABILIZE": "STABILIZED": "STABILIZATION" MEANS THE EXPOSED GROUND SURFACE
HAS BEEN COVERED BY APPROPRIATE MATERIALS SUCH AS MULCH, STAKED SOR
INPAR, ERSOINO CONTROL BLANKET, MATS OR OTHER MATERIAL HAT PREVENTS
EROSION FROM OCCURRING, GRASS SEEDING, AGRICULTURAL CROP SEEDING OR OTHER
SEEDING ALONE IS NOT STABILIZATION, MULCH MATERIALS MUST ACHEVE
APPROXIMATELY 90 PERCENT GROUND GOVERAGE (TYPICALLY 2 TON/AGRE), (MINN. R.
1998)

"STEEP SLOPES" MEANS SLOPES THAT ARE 1:3 (V:H) (33.3 PERCENT) OR STEEPER IN GRADE, [MINN. R. 7090]

STEEP SLUFE R. 1993

THE R. 1993

THAT DESCRIBES THE REGION PREVENTION PLAN (SWPPP)* IMEANS A PLAN FOR STORMATER DISCHARGE THAT INCLUDES ALL REQUIRED CONTRICT MORE RECEIVED THAT DESCRIBES THE REGION PREVENTION, SEDIMENT CONTROL AND WASTE CONTROL MAD WASTE CONTROL MAD WASTE CONTROL MAD THE REGION OF THE

BONDER UPON THE STATE OR ANY PORTION THEREOF, MINN. STAT. 116.01, SUBP. 22]

"WATER QUALITY VOLLIME" MEANS ONE [1) INGV OF PUNDEF FROM THE NET INGREASE IN IMPERVIOUS SURFACES GREATED BY THE PROJECT (CALCULATED AS AN INSTANTANEOUS VOLLIMES, IMPINN. 7.090]

"WETLANDS" (AS DEFINED IN MINN. R. 7090)

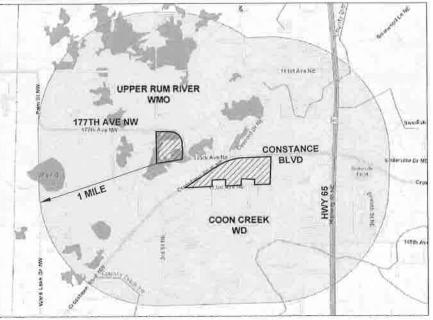
"WETLANDS" (AS DEFINED IN MINN. R. 7090, 108, SUBP. 1.A. B.) MEANS THOSE AREAS THAT ARE INJUNDATED OR SATURATED BY SURFACE WATER OR ROQUINDWATER AT A FREQUENCY AND DURATION SUFFICIENT TO SUPPORT, AND UNDER NORMAL GREATED FOR LIFE IN SATURATED SOIL CONDITIONS. WETLANDS GENERALLY INCLUDE SWAMPS, MARSHES, BOOS, AND SIMILAR AREAS, CONSTRUCTED WETLANDS DESIGNED FOR WASTEWATER TREATMENT ARE NOT WATERS OF THE STATE. WETLANDS MUST HAVE THE POLLOWING ATTIRBUTES.

. A PREDOMINANCE OF HYDRIC SOILS; AND

INUNDATED OR SATURATED BY SURFACE WATER OR GROUNDWATER AT A FREQUENCY AND DURATION SUFFICIENT TO SUPPORT A PREVALENCE OF HYDROPHYTIC VEGETATION TYPICALLY ADAPTED FOR LIFE IN A SATURATED SOIL CONDITION; AND

3, UNDER NORMAL CIRCUMSTANCES SUPPORT A PREVALENCE OF SUCH VEGETATION. [MINN. R. 7050.0186, SUBP. 1A.B]

MAP OF SURFACE WATERS



THERE ARE NO SPECIAL OR IMPAIRED WATERS WITHIN ONE (1) MILE



6776 LAKE DRIVE SUITE 110 LINO LAKES, MN 65014

RAWN BY: CHECK B' JOB NO: DATE: 19-1882 7-15-20

SSTOWN ROLLING ACRES
THIRD ADDITION
CITY OF HAM LAKE, MN
ATER POLLUTION PREVENTION P

SHEET

PRELIMINARY PLAT

~of~ CROSSTOWN ROLLING ACRES THIRD ADDITION ~for~ CROSSTOWN DEVELOPMENT, LLC 17404 WARD LAKE DRIVE NW ANDOVER, MN 55304 (612) 799-1471

PROPERTY DESCRIPTION

Outlot A, CROSSTOWN ROLLING ACRES, Anoka County, Minn

Outlot A. CROSSTOWN ROLLING ACRES SECOND ADDITION, Anoka County, Minnesota

That part of the South Half of the Southwest Quarter of Section 6, Township 32, Range 23, Anoka County, Minnesota, lying southeasterly of the southerly right of way line of C.S.A.H. No. 18 (A.K.A. Crosstown Soulevard N.E.).

That part of the South Half of the Southwest Quarter of the Southeast Quarter of Section 6, Township 32, Range 23, Anoka County, Minnesota, lying southerly and southeasterly of the southerly right of way line of C.S.A.H. No. 18 (A.K.A. Crosstown Boulevard N.E.).

EXCEPT THAT PART OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SAID SECTION 6

Commencing at the Southwest corner of the Southwest Quarter of the Southeast Quarter of said Section 6; thence North along the West line of said Southwest Quarter of Southeast Quarter a distance of 300 feet; thence Bast and parallel with the South line of said Southwest Quarter of Southest Quarter distance of 616 feet; thence South and parallel with the West line of said Southwest Quarter of Southeast Quarter a distance of 90 feet; the feet of the South line of said Southwest Quarter of Southeast Quarter; thence West along said South line to the point of beginning.

DEVELOPMENT DATA

TOTAL SITE AREA = 102.64± ACRES

49 PRÓPOSED SINGLE FAMILY LOTS

PARK DEDICATION = 4.04± ACRES OUTLOT AREA = 0.47± ACRES

AVERAGE LOT SIZE = 2.09± ACRES

MINIMUM LOT SIZE = 1.00 ACRES (INCLUDING HALF OF STREET ROW)

PROPOSED ZONING = R-1

BUILDING SETBACKS FRONT = 30 FEET SIDE = 10 FEET REAR = 50 FEET COUNTY ROAD = 50 FEET

EXISTING ZONING

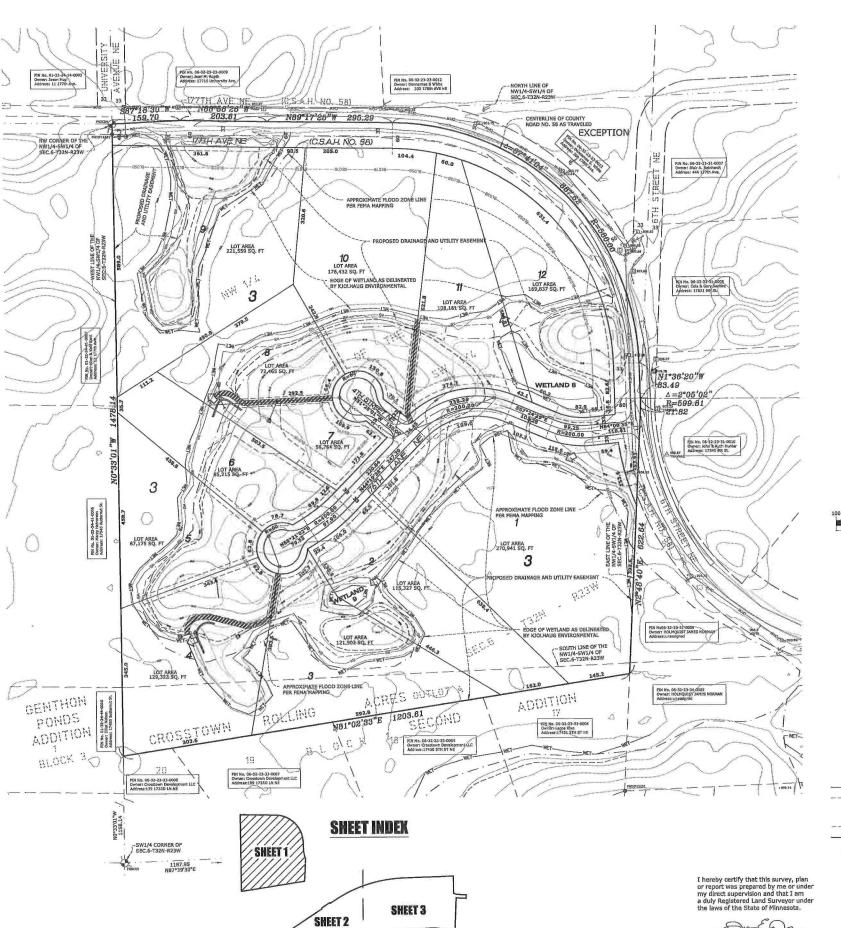
R-A - (Rural Single Family Residential)

NOTES

- Bearings shown are on Anoka County datum.
- Contours shown are per MnGEO LIDAR distribution and field verification
- Total lot areas are calculated to street centerline per ordinance. Areas of lots adjacent to Crosstown Boulevard N.E. were calculated to the right of way line.
- Parcel is subject to Electrical Transmission Easement per Doc. No. 2212537.001 and 2212537.002.

E.G. RUD & SONS, INC. BI 1977 Professional Land Surveyors

6776 Lake Drive NE, Suite 110 Lino Lakes, MN 55014 Tel. (651) 361-8200 Fax (651) 361-8701



VICINITY MAP

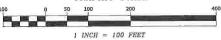
PART OF SEC. 06, TWP. 32, RNG. 23



ANOKA COUNTY, MINNESOTA (NO SCALE)



GRAPHIC SCALE



LEGEND

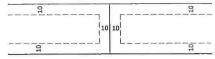
DENOTES AREA 11 ABOVE MOTTLES. DENOTES PHASE LINE

DENOTES EXISTING 2 FOOT CONTOUR

DENOTES PROPOSED 2 FOOT CONTOURS DENOTES EASEMENT LINE

DENOTES BUILDING SETBACK LINE
DENOTES WETLAND/ VEGETATIVE BUFFER
DENOTES APPROXIMATE FEMA FLOOD ZONE A LINE

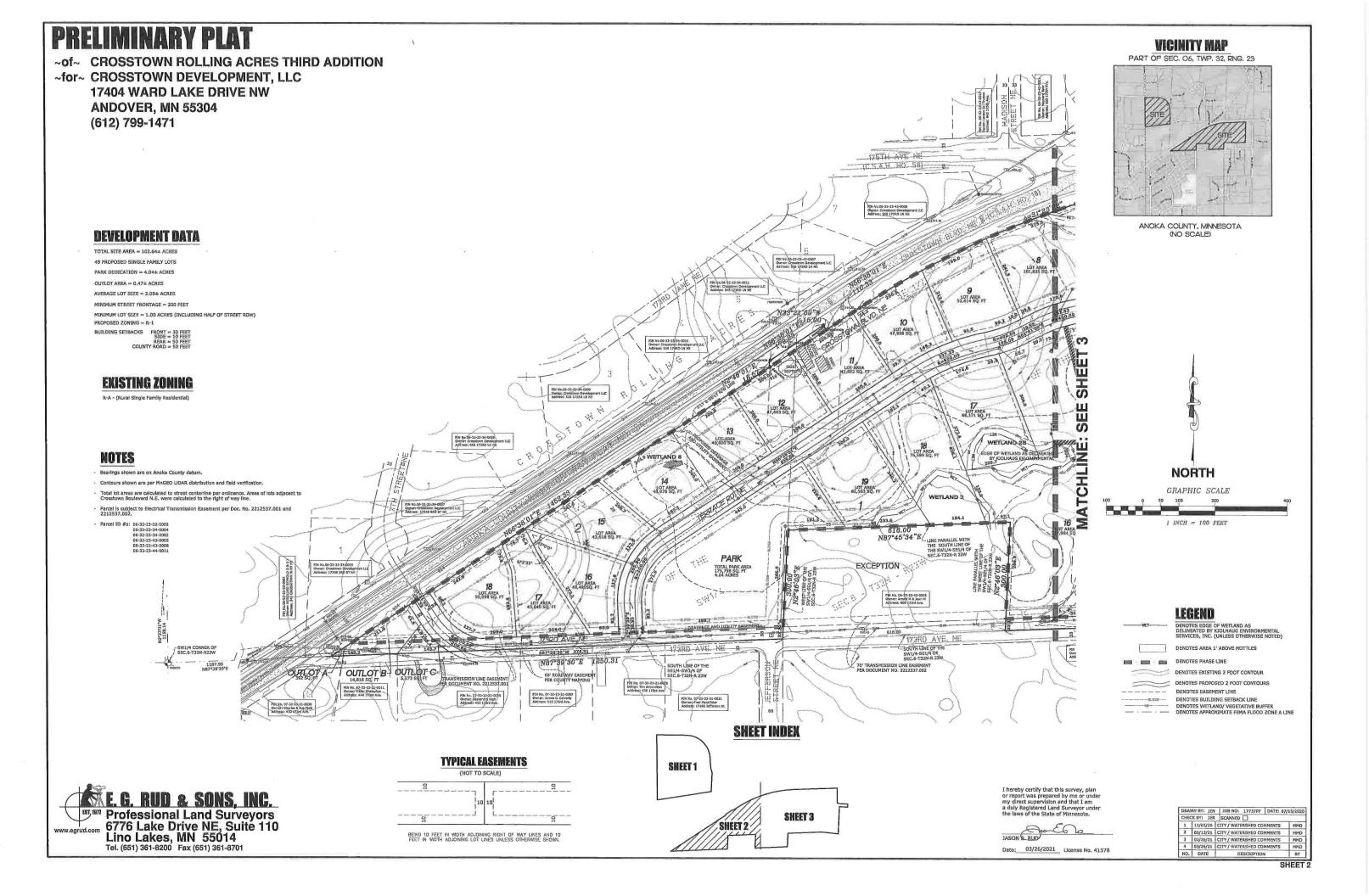
TYPICAL EASEMENTS

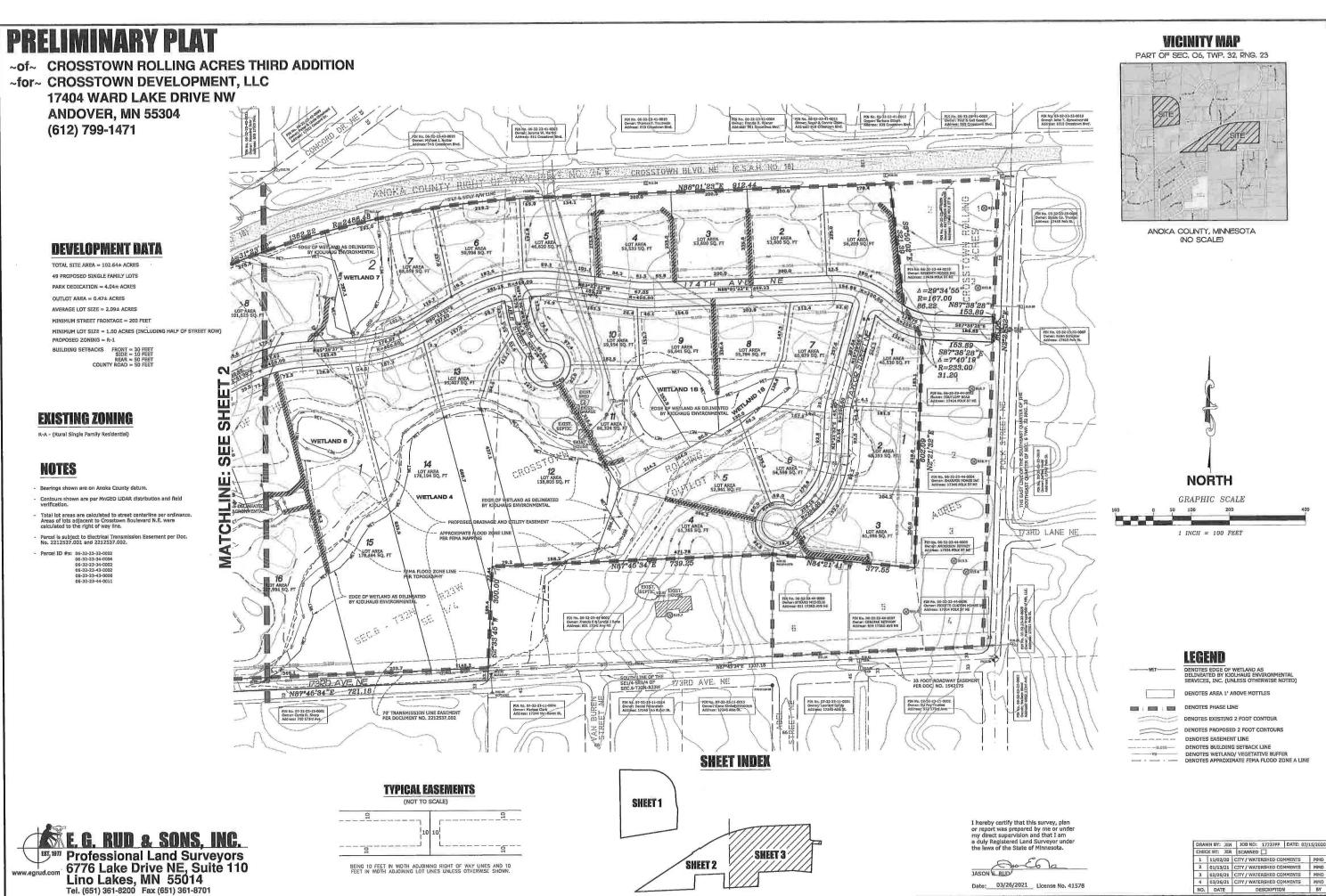


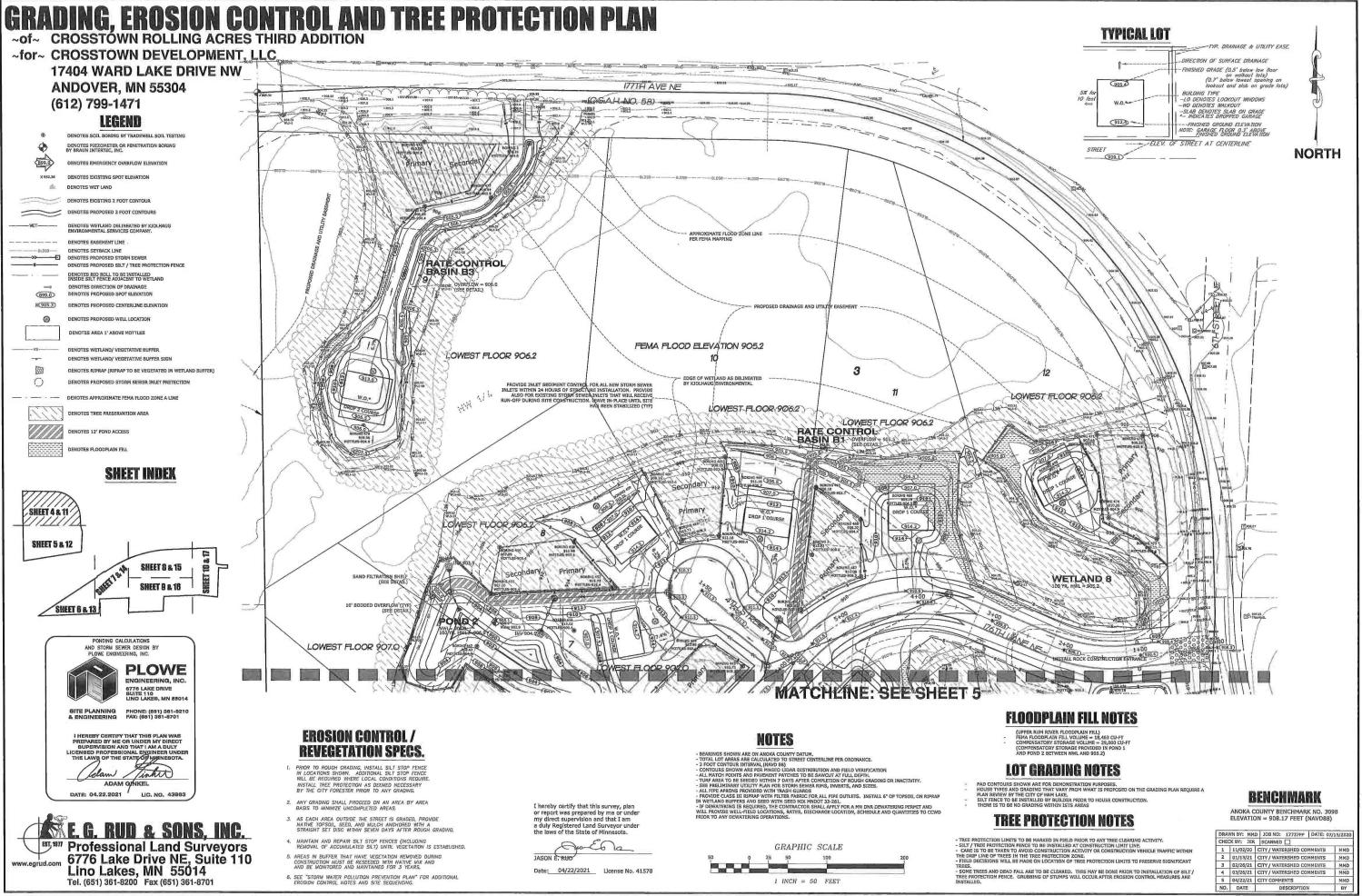
BEING 10 FEET IN WIDTH ADJOINING RIGHT OF WAY LINES AND 10 FEET IN WIDTH ADJOINING LOT LINES UNLESS OTHERWISE SHOWN.

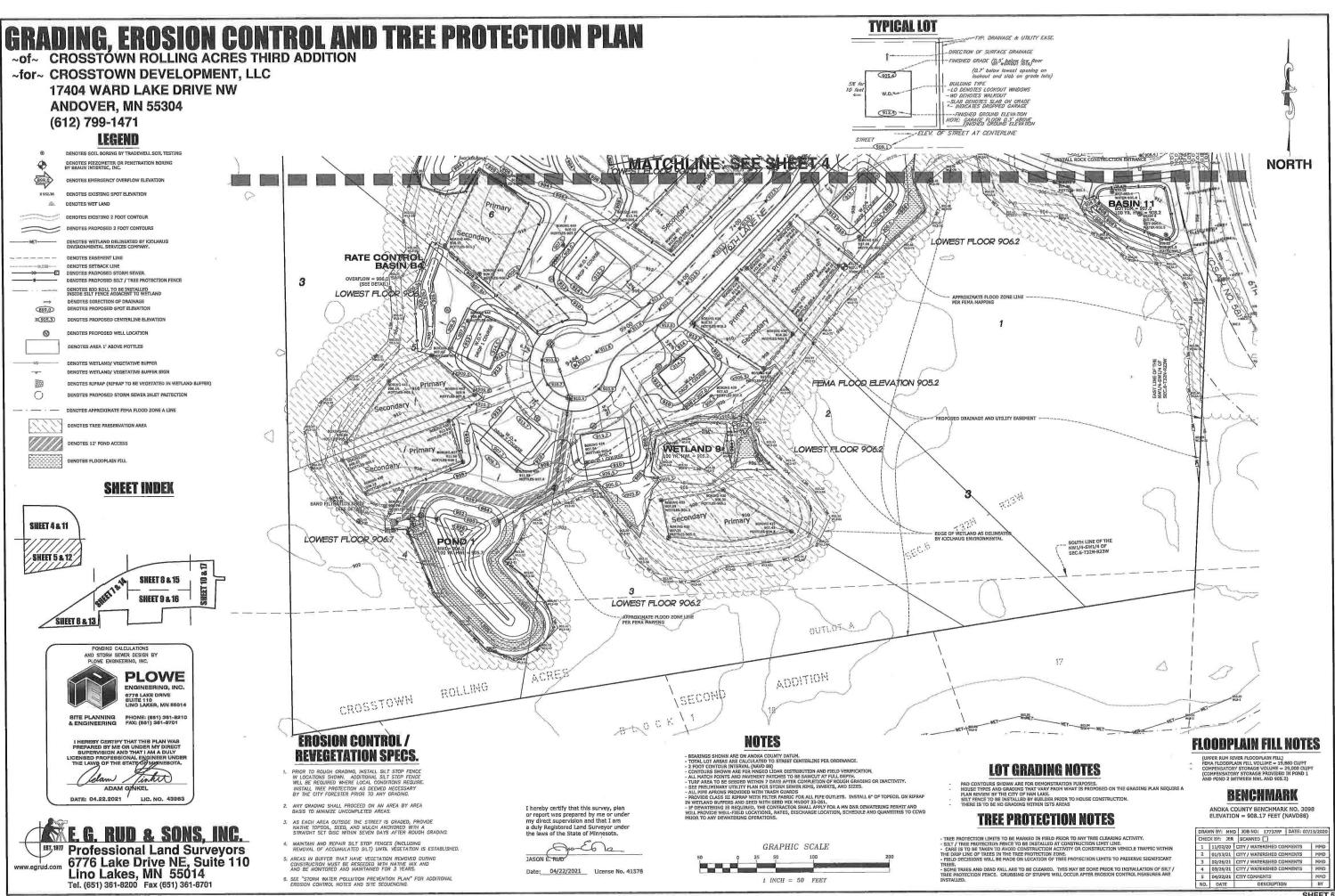
Date: 04/22/2021 License No. 41578

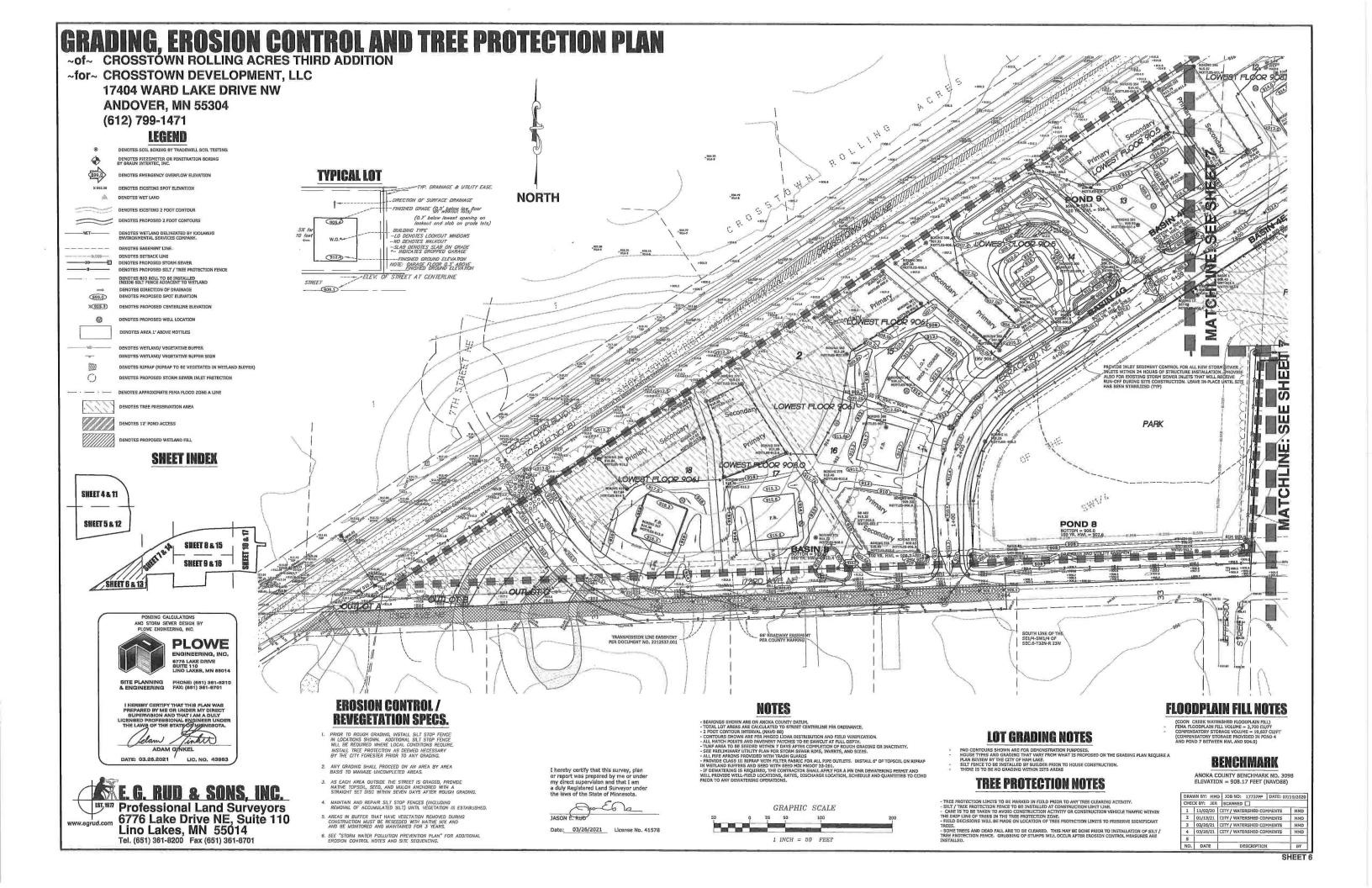
DRA	WN BY: JEN	JOB NO: 17737PP DATE: 0	7/15/2020
CHEC	K BY: JER	SCANNED []	
1	11/02/20	CITY / WATERSHED COMMENTS	MMD
2	01/13/21	CITY / WATERSHED COMMENTS	MMD
3	02/26/21	CITY / WATERSHED COMMENTS	MMD
4	03/26/21	CITY / WATERSHED COMMENTS	MMD
5	04/22/21	CITY COMMENTS	MMD
NO.	DATE	DESCRIPTION	BY

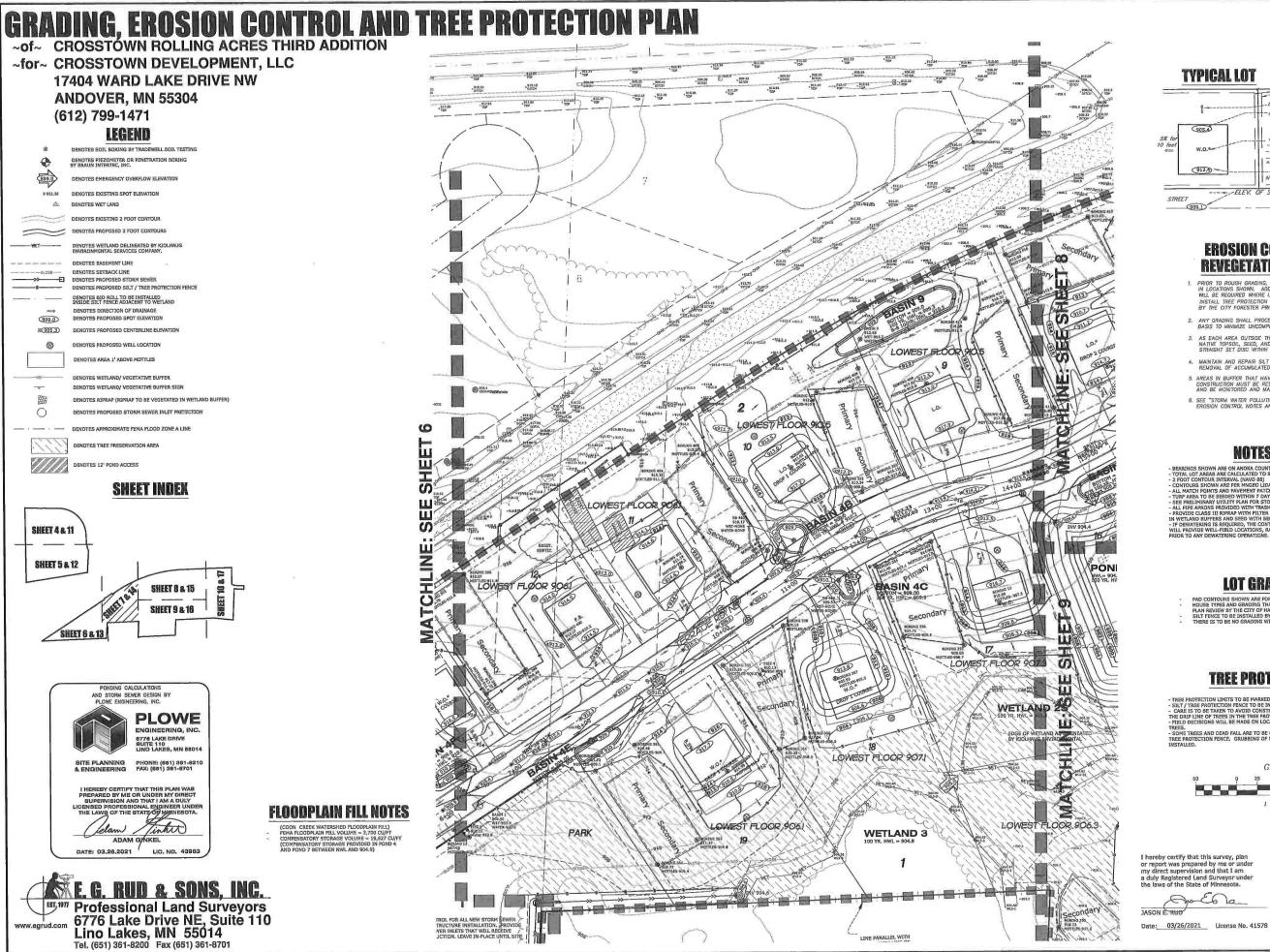












TYPICAL LOT DIRECTION OF SURFACE DRAINAGE FINISHED GRADE (0,5" below low floor (0.7' below lowest opening on lookout and slab on grade lots) BUILDING TYPE
-LO DENOTES LOOKOUT WINDOWS
-WO DENOTES WALKOUT -- SLAB DENOTES SLAB ON GRADE *- INDICATES DROPPED GARAGE NORTH NOTE: GARAGE FLOOR 0.3' ABOVE
FINISHED GROUND ELEVATION ----ELEV. OF STREET AT CENTERLINE (909.1)

EROSION CONTROL/ REVEGETATION SPECS

- PRIOR TO ROUGH GRADING, INSTALL SILT STOP FENCE IN LOCATIONS SHOWN. ADDITIONAL SILT STOP FENCE ML BE REQUIRED WHERE LOCAL CONDITIONS REQUIRE INSTALL TREE PROTECTION AS DEEMED NECESSARY BY THE CITY FORESTER PRIOR TO ANY GRADING.
- AS EACH AREA OUTSIDE THE STREET IS GRADED, PROVIDE NATIVE TOPSOIL, SEED, AND MULCH ANCHORED WITH A STRAIGHT SET DISC WITHIN SEVEN DAYS AFTER ROUGH GRADING

- SEE "STORM WATER POLLUTION PREVENTION PLAN" FOR ADDITIONAL EROSION CONTROL NOTES AND SITE SEQUENCING.

NOTES

- BEARINGS SHOWN ARE ON ANOKA COUNTY DATUM.
 TOTAL LOT AREAS ARE CALCULATED TO STREET CENTERLINE PER ORDINANCE.
 2 POOT CONTOIN INTERVAL (MAND 89A)
 BISTRAIL OF AREAS ARE CALCULATED TO STREET CENTERLINE PER ORDINANCE.
 CONTOURS SHOWN ARE PER WINGED LIDADES TO BE SANGOT AT PULL DEPTH.
 CONTOURS SHOWN ARE PER WINGED LIDADES TO BE SANGOT AT PULL DEPTH.
 THE PER HAVE AND BE SEEDED WITHIN TO ANS AFTER COMMETTION OF ROUGH GRADING OR INACTIVITY,
 SEE PRELIMINARY UTILITY PLAN FOR STORM SEWER RIMS, BAVERTS, AND SIZES.
 PROVIDE CLASS III REPRAP WITH FILTER FABRIC FOR ALL PIPE OUTLETS. INSTALL 5° OF TOPSOIL ON RIPRAP
 IN WITLAND BUFFERS AND SEED WITH SEED MIX MINDOT 33-261.
 TO EDWATEGING IS REQUIRED, THE CONTRACTOR SHALL APPLY FOR A MIN DIX DEWATERING PERMIT AND
 WILL PROVIDE WELL-TIED LO CONTRACTOR SHALL APPLY FOR A MIN DIX DEWATERING PERMIT AND
 WILL PROVIDE WELL-TIED LO CONTRACTOR SHALL APPLY FOR A MIN DIX DEWATERING PERMIT AND
 WILL PROVIDE WELL-TIED LO CONTRACTOR SHALL APPLY FOR A MIN DIX DEWATERING PERMIT AND
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 WILL PROVIDE WELL-TIED LO CONTRACTOR SHALL APPLY FOR A MIN DIX DEWATERING PERMIT AND

LOT GRADING NOTES

- PAD CONTOURS SHOWN ARE FOR DEMONSTRATION PURPOSES.
 HOUSE TYPES AND GRADING THAT VARY FROM WHAT IS PROPOSED ON THE GRADING PLAN REQUIRE A
 PLAN REVIEW BY THE CITY OF HAM LAKE.
 SILT FENCE TO BE INSTALLED BY BUILDER PRIDR TO HOUSE CONSTRUCTION.
 THERE IS TO BE ON GRADING WITHIN ISTS AREAS

TREE PROTECTION NOTES

- TREE PROTECTION LIMITS TO BE MARKED IN FIELD PRIOR TO ANY TREE CLEARING ACTIVITY.
- SILT / TREE PROTECTION FENCE TO BE INSTALLED AT CONSTRUCTION LIMIT LINE.
- CARE IS TO BE TAKEN TO AVOID CONSTRUCTION ACTIVITY OR CONSTRUCTION VEHICLE TRAFFIC WITHIN
THE DRIP LINE OF TREES IN THE TREE PROTECTION ZONE.
- PIELD DECISIONS WILL BE MADE ON LOCATION OF TREE PROTECTION LIMITS TO PRESERVE SIGNIFICANT

TREES.

- SOME TREES AND DEAD FALL ARE TO BE CLEARED. THIS MAY BE DONE PRIOR TO INSTALLATION OF SILT /
TREE PROTECTION FENCE, GRUBBING OF STUMPS WILL OCCUR AFTER EROSION CONTROL MEASURES ARE

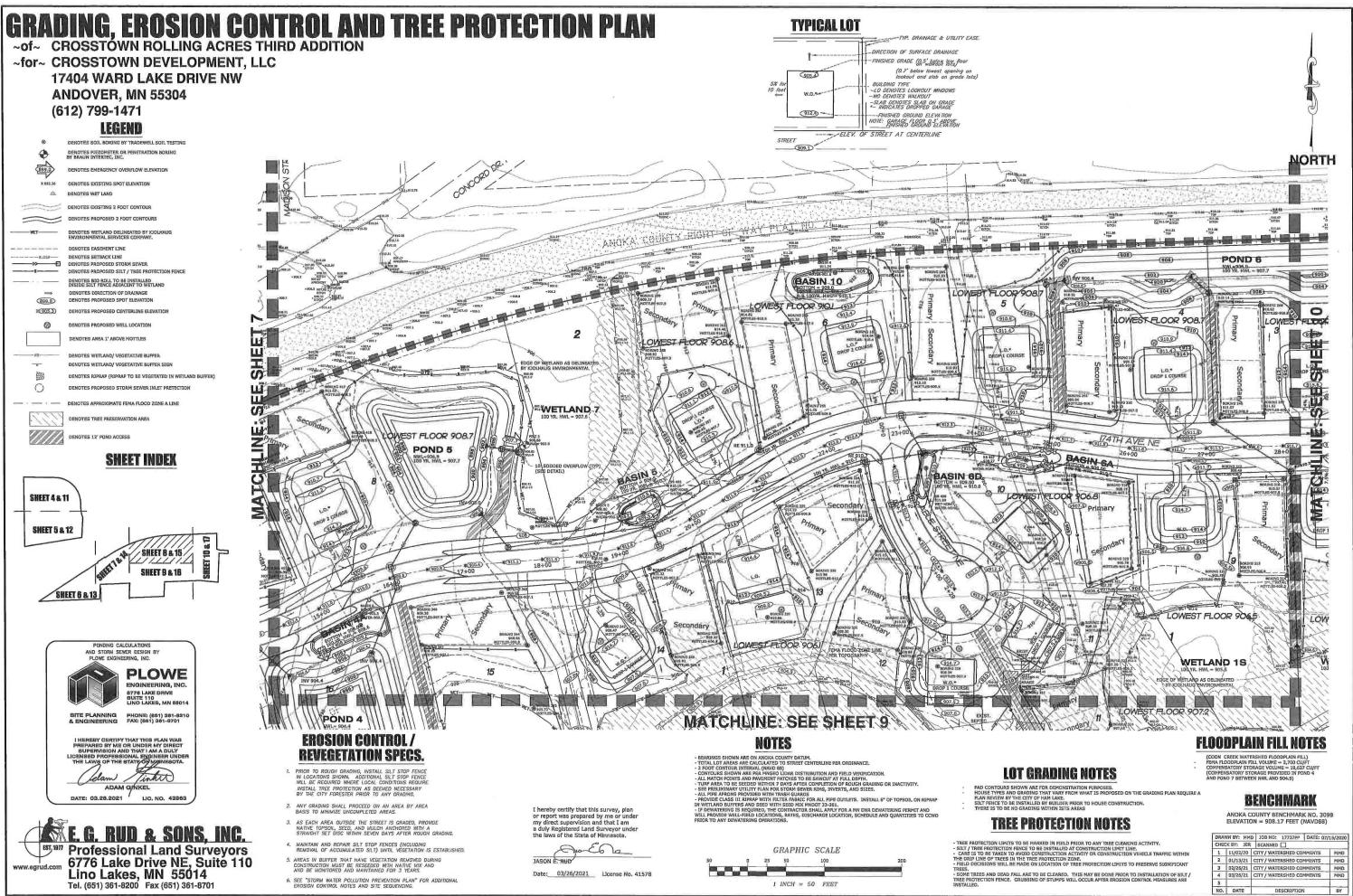
GRAPHIC SCALE 1 INCH = 50 FEET

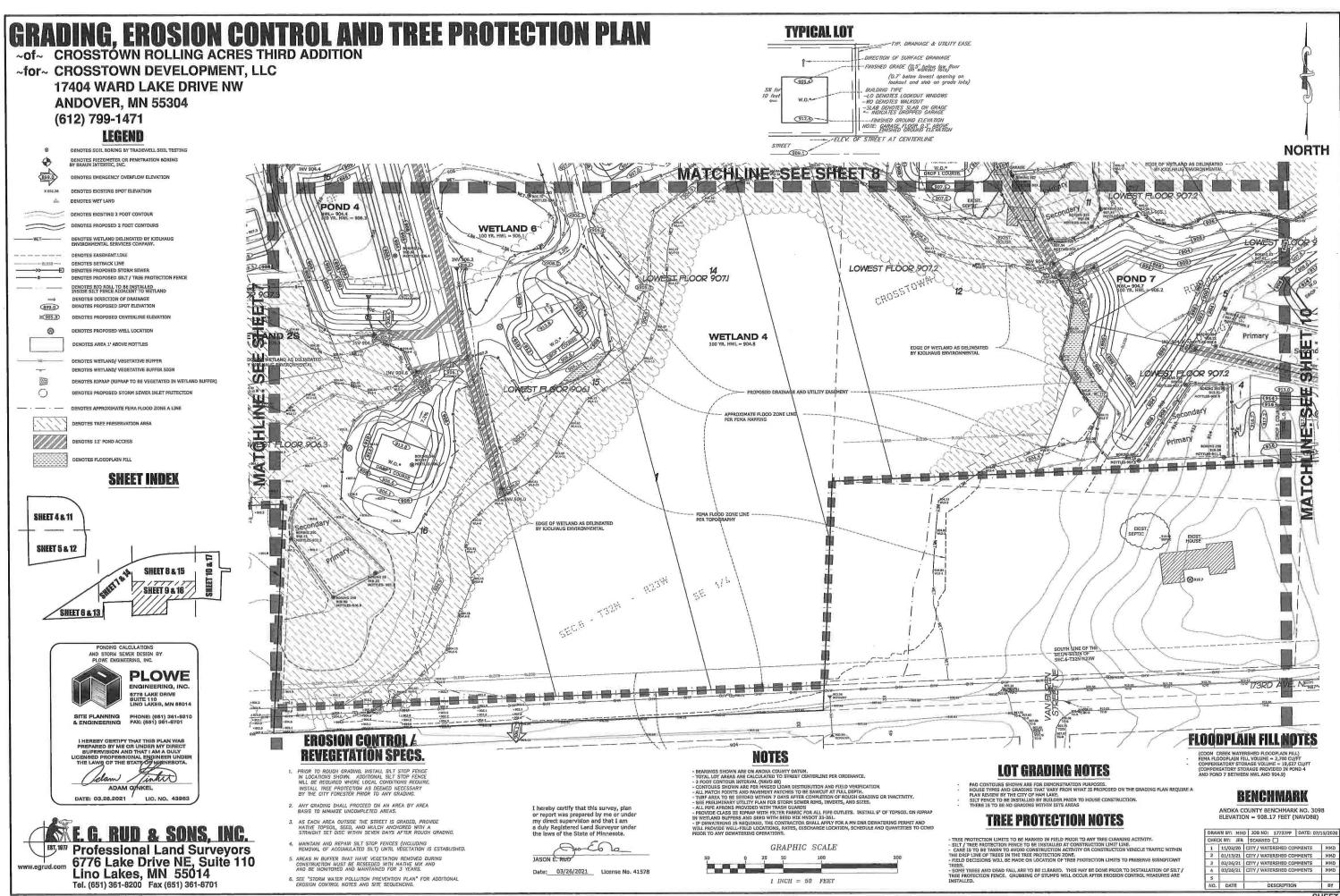
BENCHMARK

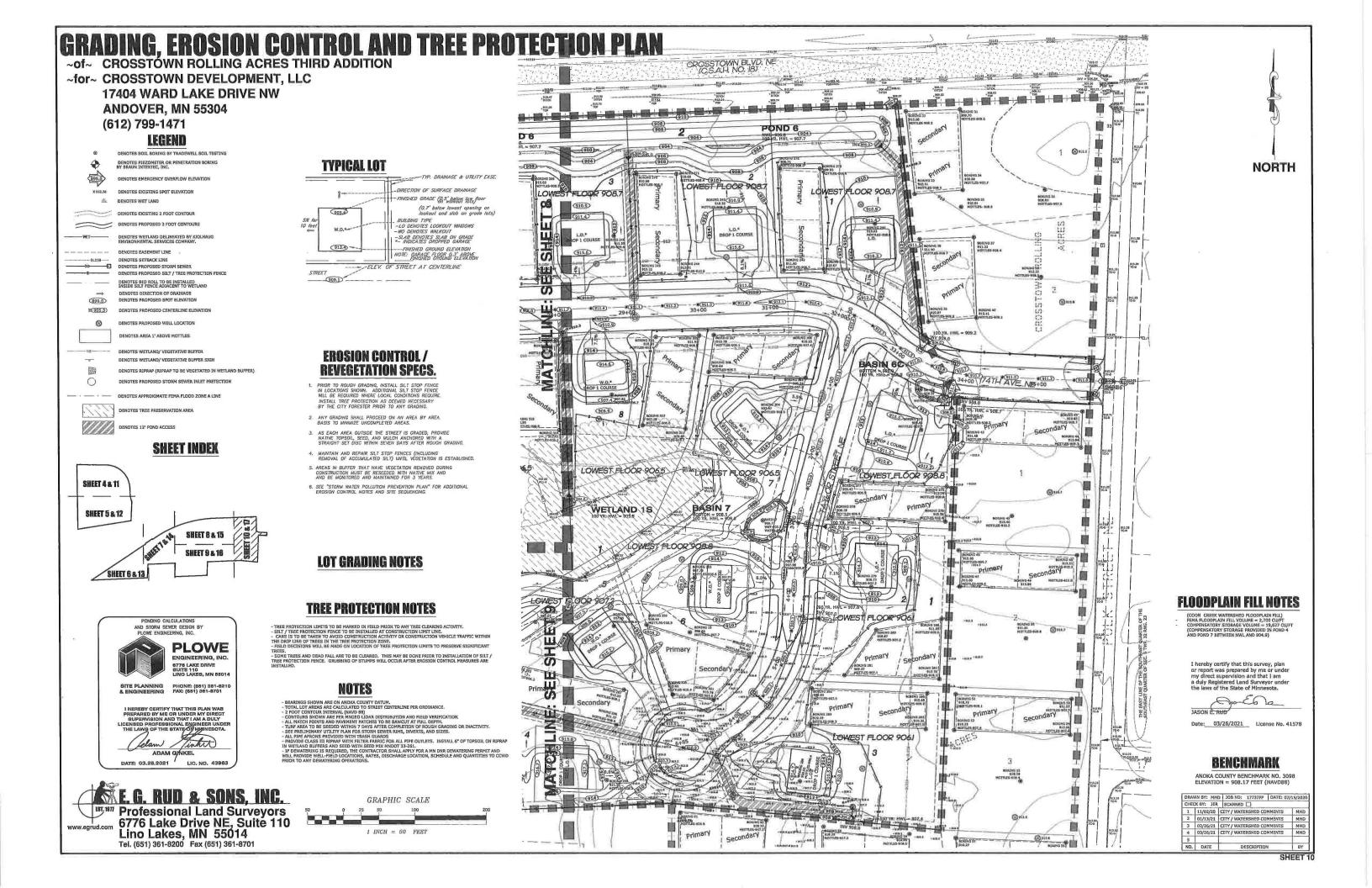
I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly Registered Land Surveyor under the laws of the State of Minnesota.

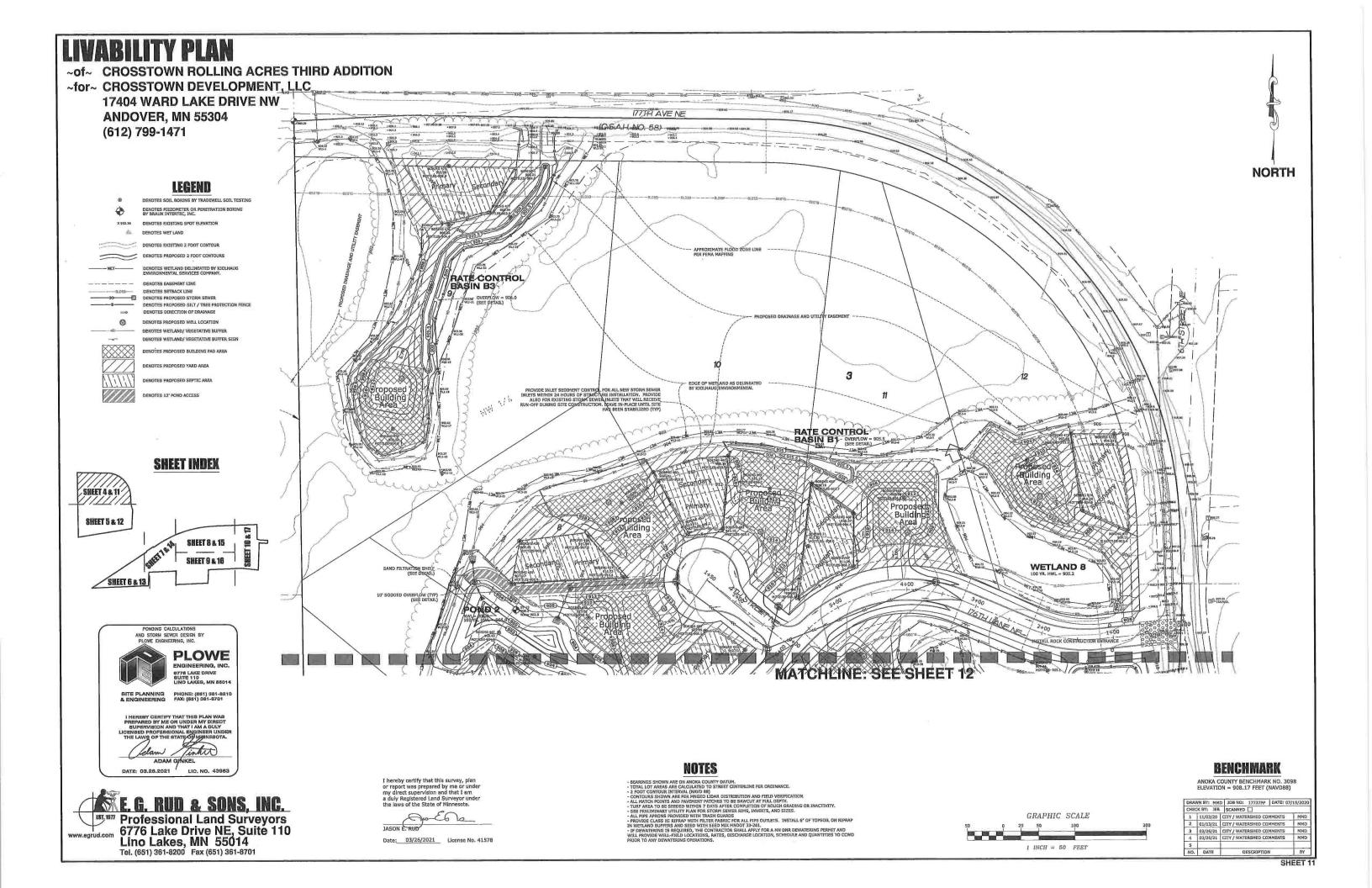
Dro-El Da TASON E BHO

DRAV	VN BY: MM	O JOB NO: :	JOB NO: 17737PP DATE: 07/15/20				
CHEC	K BY: JER	SCANNED [
1	1 11/02/20 CITY / WATERSHED COMMENTS MMC						
2	01/13/21 CITY / WATERSHED COMMENTS MMC						
3	02/26/21 CITY / WATERSHED COMMENTS MI				MMD		
4	03/26/21 CITY / WATERSHED COMMENTS MI			MMD			
5					1		
NO.	DATE	DES	DESCRIPTION				

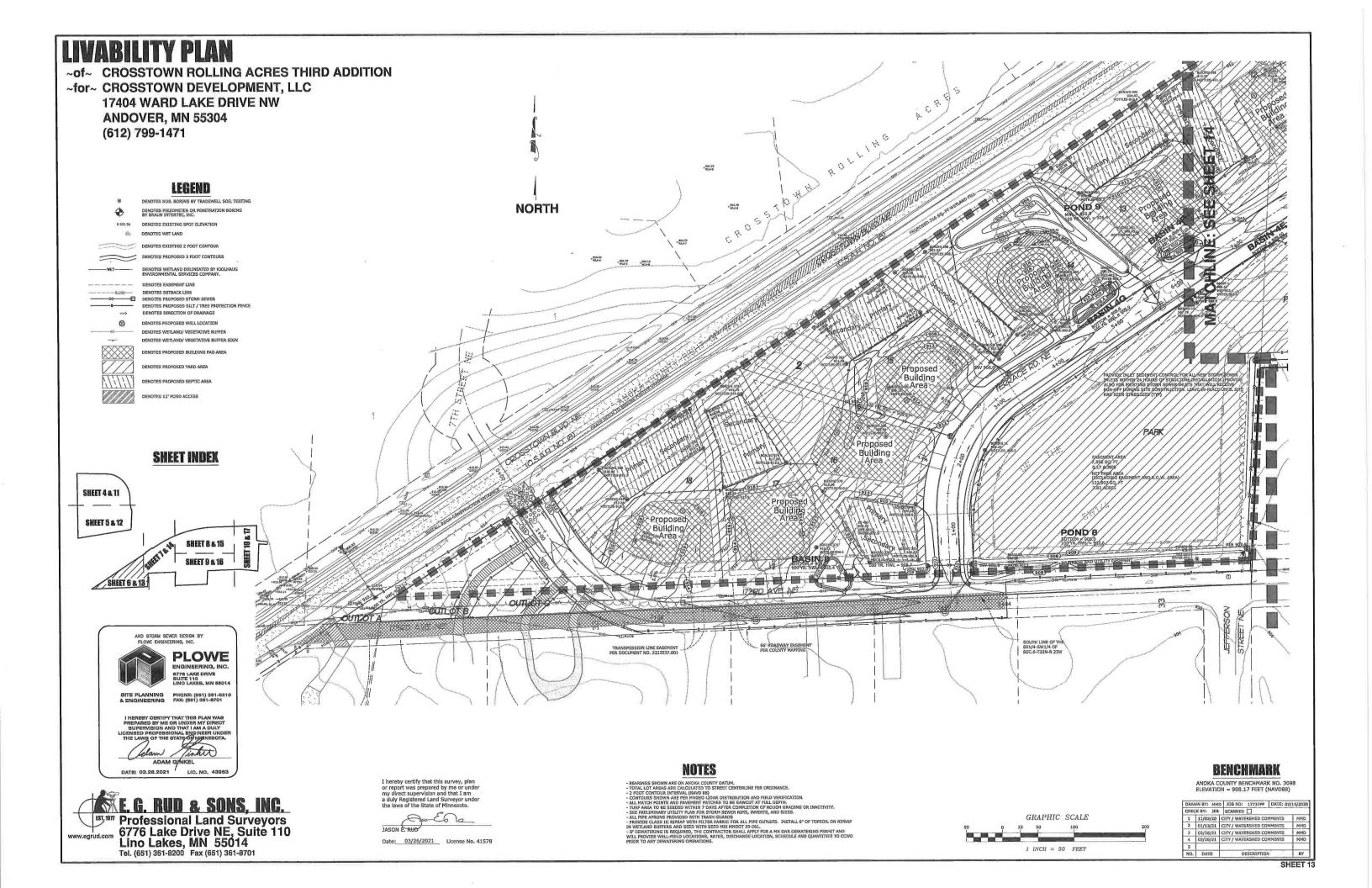








LIVABILITY PLAN ~of~ CROSSTOWN ROLLING ACRES THIRD ADDITION ~for~ CROSSTOWN DEVELOPMENT, LLC 17404 WARD LAKE DRIVE NW ANDOVER, MN 55304 (612) 799-1471 MATCHLINE SEE SHEET 11 NORTH LEGEND DENOTES SOIL BORING BY TRADEWELL SOIL TESTING DENOTES PROPOSED 2 FOOT CONTOURS RATE CONTROL BASIN B4 3 DENOTES SETBACK LINE DENOTES PROPOSED STORM SEWER DENOTES PROPOSED SILT / TREE PROTECTION FENCE APPROXIMATE FLOOD ZONE LINE PER FEMA MAPPING DENOTES WETLAND/ VEGETATIVE BUFFER SIGN DENOTES PROPOSED SEPTIC AREA WETLAND 9 P. 23 W **SHEET 4 & 11** SHEET 5 & 12 SHEET 8 & 15 SHEET 9 & 16 SHEET 6 & 13 APPROXIMATE FLOOD ZONE LIN PONDING CALCULATIONS AND STORM SEWER DESIGN BY ADDITION **PLOWE** ROLLING 'SECOND CROSSTOWN BOCK Tinhu NOTES BENCHMARK DATE: 03.28.2021 / LIC. NO. 43963 BEARINGS SHOWN ARE ON ANOKA COUNTY DATUM. - TOTAL LOT AREAS ARE CALCULATED TO STREET CENTERLINE PER ORDINANCE. - 2 FOOT CONTOUR INTERVAL (NAVO 89) - 2 FOOT CONTOUR INTERVAL (NAVO 89) - CONTOURS SHOWN ARE PER WHOSE O LOAR DISTRIBUTION AND FIELD VERBITCATION. - CONTOURS SHOWN ARE PER WHOSE O LOAR DISTRIBUTION AND FIELD VERBITCATION. - CONTOURS SHOWN ARE PER WHOSE OLD BE SANGLIT AT RIAL DEFTH. - TURF AREA TO BE SEEDED WITHIN 1 DAYS AFTER COMPLETION OF ROUGH GRADING OR INACTIVITY. - SEER PRELIMINARY UTILITY PLAN FOR STORM SEWER RIMS, INVESTS, AND SIZES. - ALL PIPE APRONS PROVIDED WITH THISE REARL FOR ALL PIPE OUTLETS. INSTALL 6" OF TOPSOIL ON RIPRAP IN WEILAND BUFFERS AND SEED WITH SEED MIX MYDOT 33-251. IT DEWATERING IS REQUIRED, THE CONTRACTOR SHALL APPLY FOR A MY DAY DEWATERING PERMIT AND WILL PROVIDE WELL-PIELD LOCATIONS, RATES, DISCHARGE LOCATION, SCHEDULE AND QUANTITIES TO CCWO PRIOR TO THE CONTRACTOR SHALL APPLY FOR A MY DAY DEWATERING OPERATIONS. I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly Registered Land Surveyor under the laws of the State of Minnesota. ANOKA COUNTY BENCHMARK NO. 3098 ELEVATION = 908.17 FEET (NAVD88) E.G. RUD & SONS, INC. Professional Land Surveyors GRAPHIC SCALE 1 11/02/20 CITY / WATERSHED COMMENTS MMC 6776 Lake Drive NE, Suite 110 Lino Lakes, MN 55014 Date: 03/26/2021 License No. 41578 1 INCH = 50 FEET Tel. (651) 361-8200 Fax (651) 361-8701

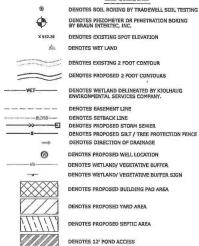


~of~ CROSSTOWN ROLLING ACRES THIRD ADDITION ~for~ CROSSTOWN DEVELOPMENT, LLC

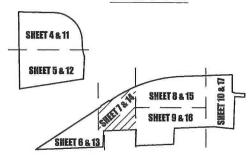
17404 WARD LAKE DRIVE NW ANDOVER, MN 55304

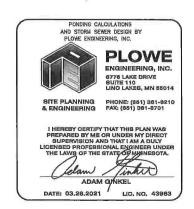
(612) 799-1471

LEGEND



SHEET INDEX

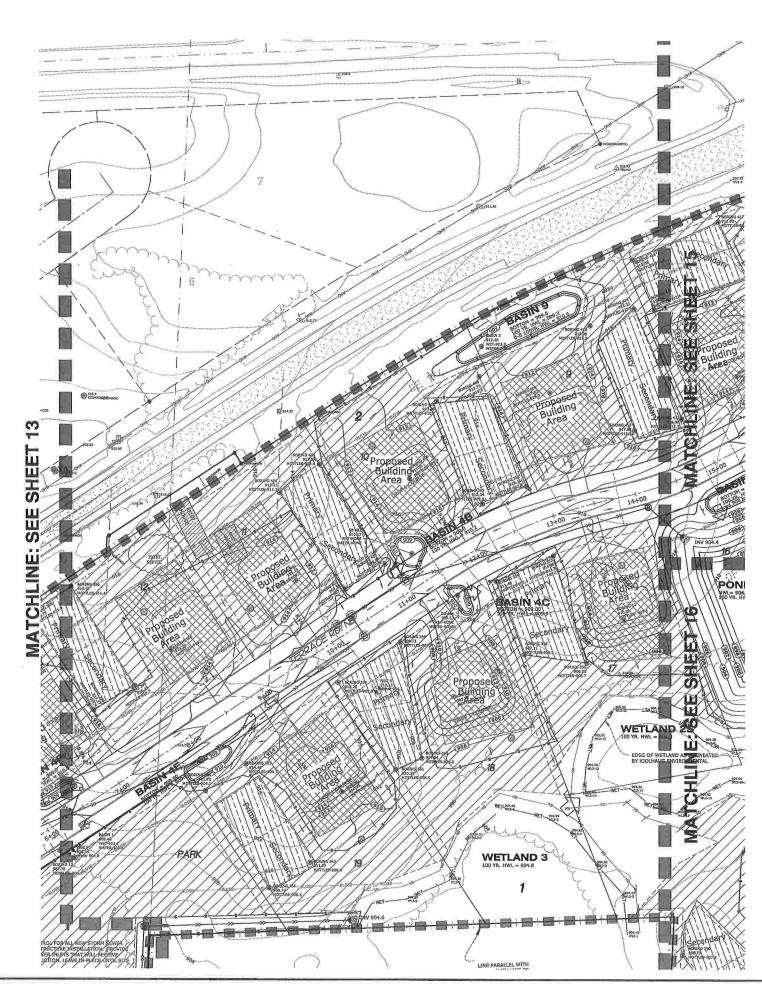




E.G. RUD & SONS, INC. www.egrud.com Fax (651) 361-8701

BIT.1877 Professional Land Surveyors 6776 Lake Drive NE, Suite 110 Lino Lakes, MN 55014

Tel. (651) 361-8200 Fax (651) 361-8701





NOTES

- BEARINGS SHOWN ARE ON ANOKA COUNTY DATUM.

 TOTAL LOT ARBA SAE CALCULATED TO STREET CENTERLINE PER ORDINANCE.

 POOT CONTOUR INTERVAL (MIWO BI)

 CONTOURS SHOWN ARE PER MIGGO LIDAR DISTRIBUTION AND FIELD VERBIFCATION.

 ALL MATCH POINTS AND PAVEMENT PATCHES TO DE SAWGUT AT FILL DETTH.

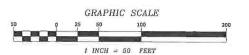
 TUBE AREA TO BE SEEDED WITHIN 7 DAYS AFTER COMPLETION OF ROUGH GADDING OR INACTIVITY.

 SEE PRELIMINARY UTLITY PLAN FOR STORN SEVER RIMS, INVERTS, AND SIZES.

 ALL PIPE APRONS PROVIDED WITH TRASH GUARDS

 PROVIDE CLASS IT RIPARY WITH FILTER FARBIC FOR ALL PIPE OUTLETS. INSTALL 6" OF TOPSOIL ON RIPRAP
 IN WETLAND BUFFERS AND SEED WITH SEED MIX WINDOT 33-261.

 IT DEWATERING IS REQUIRED, IT CONTRACTOR SHALL APPLY FOR A MY ONE DEWATERING PERMIT AND
 WILL PROVIDE CLASS IT RIPARY WITH CONTRACTOR SHALL APPLY FOR A MY ONE DEWATERING PERMIT AND
 WILL PROVIDE WELL-PIELD LOCATIONS, RATES, DISCHARGE LOCATION, SCHEDULE AND QUANTITIES TO COWD
 PRIOR TO ANY DEWATERING OPERATIONS.



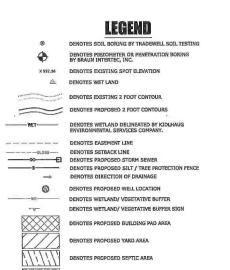
BENCHMARK ANOKA COUNTY BENCHMARK NO. 3098 ELEVATION = 908.17 FEET (NAVD88)

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

Date: 03/26/2021 License No. 41578

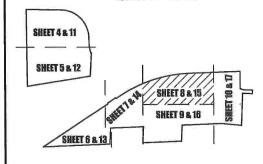
SHEET 14

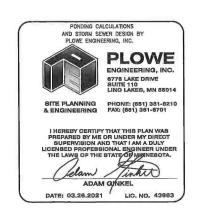
- ~of~ CROSSTOWN ROLLING ACRES THIRD ADDITION
- ~for~ CROSSTOWN DEVELOPMENT, LLC 17404 WARD LAKE DRIVE NW ANDOVER, MN 55304 (612) 799-1471



SHEET INDEX

DENOTES 12' POND ACCESS





187, 1977 Professional Land Surveyors 6776 Lake Drive NE, Suite 110 Lino Lakes, MN 55014
Tel. (651) 361-8200 Fax (651) 361-8701

Date: 03/26/2021 License No. 41578

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

NOTES

BEARINGS SHOWN ARE ON ANDKA COUNTY DATUM.

TOTAL LOT AREAS ARE CALCULATED TO STREET CENTERLINE PER ORDINANCE.

2 FOOT CONTOUR INTERVAL (RAYO 88)

CONTRIUS SHOWN ARE PER HERVAL (RAYO 88)

TO STREET CENTERLINE PER CONTRIBUTION AND FIELD VERIFICATION.

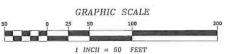
CONTRIUS SHOWN ARE PER HERVAL PATCHES TO BE SANGUT AT FULL DEPTH.

THAT AREA TO BE SECOED WITHIN 7 DAYS AFTER COMPLETION OF ROUGH GRADING OR INACTIVITY.

SEEP PRELIMINARY UTILITY PLAY POR STORM SEVER RIMS, INVERTS, AND SIZES.

FROVIDE CLASS III RIPRAY WITH FILES RABBIC FOR ALL PIPE OUTLETS. INSTALL 6" OF TOPSOIL ON RIPRAP IN WEITLAND BUFFERS AND SEED WITH SEED MIX MINDOT 33-253.

1 FO DEWATERING IS REQUIRED, THE CONTRACTION SHALL APPLY FOR A MY DINR DEWATERING PERMIT AND WILL PROVIDE WILL-FIELD LOCATIONS, RATES, DISCHARGE LOCATION, SCHEDULE AND QUANTITIES TO COMP
PURIOR TO ANY DEWATERING OFFERATIONS.

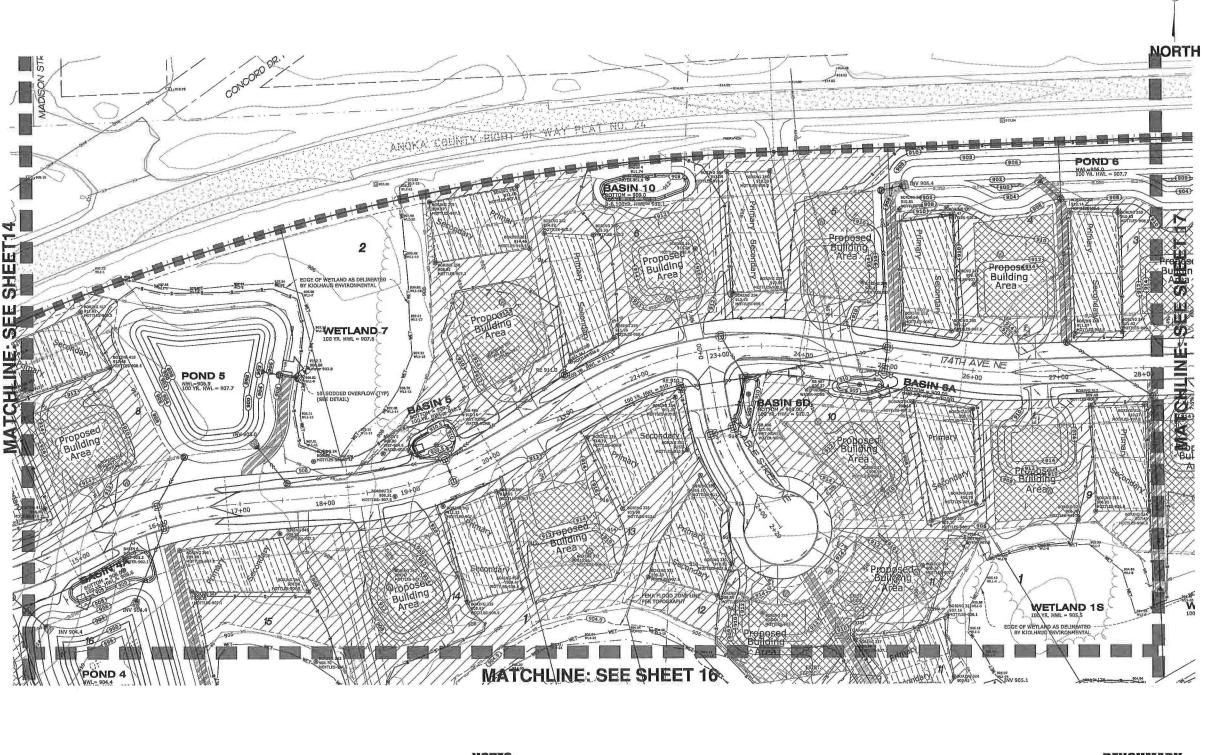


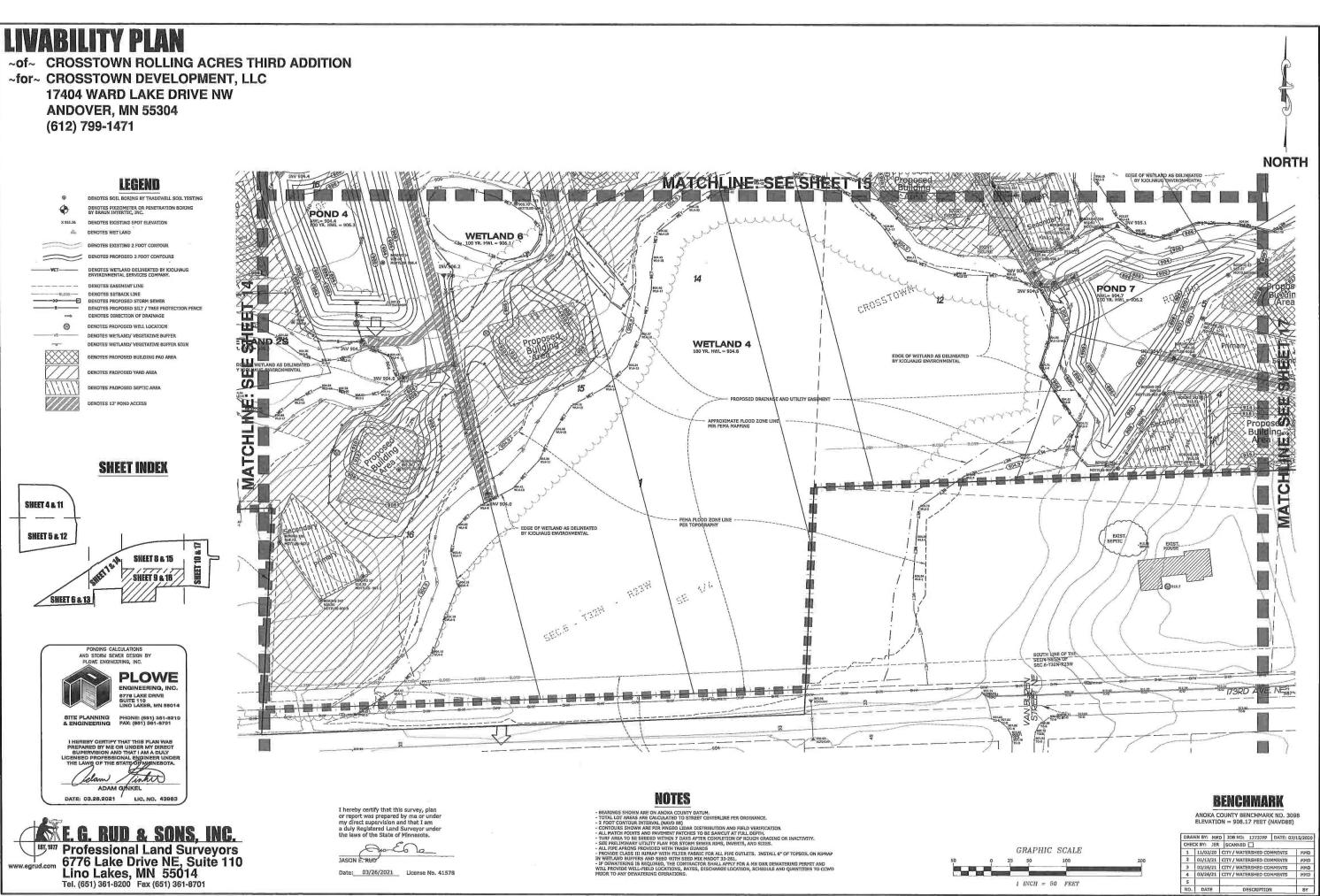
BENCHMARK

ANOKA COUNTY BENCHMARK NO. 3098 ELEVATION = 908.17 FEET (NAVD88)

DRAV	YN BY: MM	D JOB NO: 17737PP	DATE: 07/15/2020			
CHEC	K BY: JER	SCANNED [
1	11/02/20 CITY / WATERSHED COMMENTS MMD					
2	D1/13/21 CITY / WATERSHED COMMENTS MI					
3	02/26/21	CITY / WATERSHED CO	MMENTS MMD			
4	03/26/21	CITY / WATERSHED CO	MMENTS MMD			
5						
NO.	DATE	DESCRIPTION	BY			

SHEET 15





SHEET 1

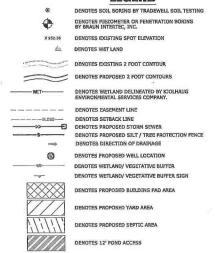
LIVABILITY PLAN

~of~ CROSSTOWN ROLLING ACRES THIRD ADDITION ~for~ CROSSTOWN DEVELOPMENT, LLC

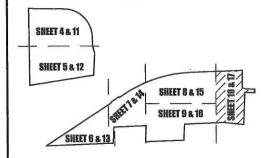
17404 WARD LAKE DRIVE NW **ANDOVER, MN 55304**

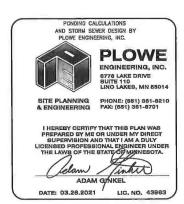
(612) 799-1471

LEGEND



SHEET INDEX





NOTES

BEARINGS SHOWN ARE ON ANOKA COUNTY DATUM.

TOTAL LOT AREAS ARE CALCULATED TO STREET CENTERLINE PER ORDINANCE.

2 POOT CONTURUR INTERVAL, (MAND DIAN DE DISTREET CENTERLINE PER ORDINANCE.

CONTURES SHOWN ARE PER, MINGEO LIDNE DES AND THE SHORT AT FAIL DEPTH.

CONTURES SHOWN ARE PER, MINGEO LIDNES TO BE SANCRIT AT FAIL DEPTH.

THE PREMENT OR BESEEDED WITHIN TO AVES AFTER COMPLETION OF ROUGH GRADING OR INACTIVITY.

SEEP RELIMINARY UTILITY PLAN FOR STORM SEWER RINS, INVERTIS, AND SIZES.

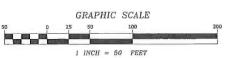
ALL PIER PARONE PROVIDED WITH TRASH GUARDS ALL PIPE OUTLETS. INSTALL 5" OF TOPSOIL ON RIPRAP

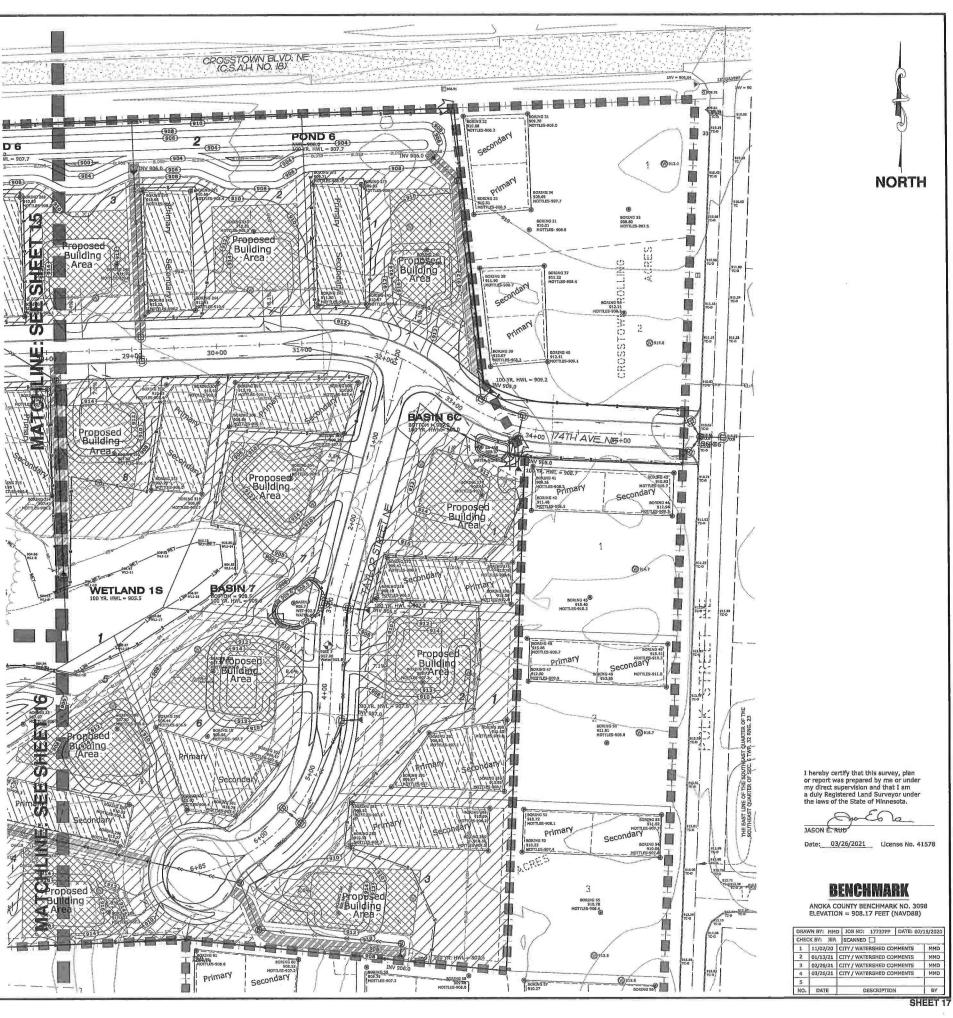
PROVIDE CLASS III RIPRAP WITH FILTER FABRIC FOR ALL PIPE OUTLETS. INSTALL 5" OF TOPSOIL ON RIPRAP

WETLAND SUPPRES AND SEED WITH SEED MIX MINDER 35-281.

THE STATE OF THE SANCRIF OF THE SEED WITH SEED WIT

G. RUD & SONS, INC. GRAPHIC SCALE EST, 1977 Professional Land Surveyors 6776 Lake Drive NE, Suite 110 Lino Lakes, MN 55014 Tel. (651) 361-8200 Fax (651) 361-8701





LIVABILITY CHART

~of~ CROSSTOWN ROLLING ACRES THIRD ADDITION ~for~ CROSSTOWN DEVELOPMENT, LLC 17404 WARD LAKE DRIVE NW **ANDOVER, MN 55304** (612) 799-1471

A 15TS Area Each lot must contain at least 7,500 square feet of configurous area which is reserved for both the 15TS originally constructed and a future 15TS. The 15TS Area need not be configurous to the Eligible building Area or the Fara Area, Lanzinale Solis, and must confinal undisturbed Solis or solis which meet the requirements of Rule 7080 of the Minnesote Pollution Control Agency for 15TS construction standards. The 15TS Area may be Irregular in shape, provided they do not encousch into areas reserved by eastment or otherwise for roadway, drainage or utility purposes, and provided their of the area can be reasonably used for 15TS construction without the need for variances.

B. Eligible Building Area Each lot shall contain at least 10,000 square feet of configuous land which lies at an elevation at least four feet above Unsuitable Soils. The Eligible Building Area may not be irregular in shape, and should be generally rectangular or ovoid, with no panhandles, narrow necks or peninsules. Eligible Building Areas may not encoroach find any areas reserved by essement or otherwise for readvey, drainage or utility purposes. Fill may be used to create Eligible Building Area.

C. Yard Area Each lot shall contain at least 12,000 contiguous square feet which:

C. Yard Area Each lot shall contain at least 12,000 contiguous square feet which:

1) Lies above the 100 year flood contour, and

1) Lies at least one foot above soits unsuitable for the intended usage of
the Yard area, and

1) Is configuous the Eligible Building Area for a distance of at least

1) Is configuous the Eligible Building Area for a distance of at least

Yard Areas rate and the Eligible Building Area for a distance of a tract

Yard Areas rate accretion to the dedicated assement area which lies at a distance of
tract feet from the perimeter of the Building Area area which lies at a distance of
the fact for the perimeter of the let, and may encreech into enser acceived by
easement or otherwise for other public willity purposes, but may not encreach into any
other area reserved by dedication or otherwise for road or drainage purposes, any may
not acroach into any areas within the 100 year flood contour or into designated
wellands. Yard Areas may be irregular in shape accept within thirty feet of the
locations where the Yard Area is contiguous to the Bilgible Building Area, at which
locations the Yard Areas may be is a logical extendance or expendition of the generally
rate after a contiguous to the Bilgible Building Area. All may be used to create
Yard Area.

D. Building Pad Areas The entire Building Pad must lie within the Eligible Building Area, and shall meet the separation requirements for the Eligible Building Area.

E. Low Floor Elevations

Low Floor: Elevations

Ji For welknott (sagings, the low floor elevation shall be at least one foot above the 100 year flood contour, but, notwithstanding the 100 year flood contour, but, notwithstanding the 100 year flood contour, not less than one foot above unsuitable soils, as determined by the City's engineer.

I) For other designs, the low floor elevation shall be at least one foot above the 100 year flood contour, but, notwithstanding the 100 year flood contour, not less than one of a bove unsuitable soils, as determined by the City's engineer.



SITE PLANNING PHONE: (651) 361-8210 & ENGINEERING PAX: (651) 361-8701

HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROPESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MISNESOTA.

ADAM QINKEL

DATE: 03.28.2021 LIC. NO. 43983

E.G. RUD & SONS, INC. BI 1977 Professional Land Surveyors 6776 Lake Drive NE, Suité 110 www.egrud.com Lino Lakes, MN 55014 Tel. (651) 361-8200 Fax (651) 361-8701

											Highest Anticipated	Low Floor					
Lal	Block	Total Lot Area	Yard Area	Septic Area (sq. ft)	Building Pad Area	Proposed Building Pad	Garage Floor	Proposed Low	Proposed Low	Lowest Floor	Groundwarer	Determining	Boring #	Boring	Mottles	Bullding	Custor
		(sq. fl.)	(sq. ft.)	(sq. a.)	(sq. ft.)	4' Above Unsuitable (sq. R.)	Elevation	Floor Elev.	Opening	Elevation	Elevation	Factor		Elevation	Elevation		Grade
1	1	46,530	13,446	7,509	10,059	10,059	915.8	908.8	912.0	908.8	904.1	BASIN 6C	274	909.68	907,7	L.O.*	NO
									2.0		7	INFIL, CALCS	275 276	913.76 915.58	909.6 910.8	DROP 1 COURSE	-
_			-										277	909.42	906,9	COOKUL	
_													278	908.18	906.5		
													488	908.37	NONE	WET	
					10										NONE	WAT	
2	1	48,393	22 179	8,143	10,300	10,124	914.5	907.5	910.7	906.1	904.1	GROUNDWATER	279	908.73	907.2	LO.*	NO
													280 281	908.87	907.2	DRCP 1	
			-								-		287	910,39	907.1	COURGE	
_													288	911.65	0.000		
3	3	61,596	28 856	8,117	10,436	10,436	915.0	908.0	911.2	906.1	904.1	GROUNDWATER	282	909.82	907,5	L.0.*	NO
			-										283	910.33	908.3	DROP 1	
			2										284	908.92	906.4	COURSE	_
											12		285 286	910.36 910.69	907.5 908.2		-
		A4 70F	45 500	7.000	40 100	9,715	917.5	910.5	913.7	907.2	904.1	POND 7	289	910.69	908.3	SIDE	NO
4	1	61,765	15,503	7,699	10,538	9,715	917.0	910.5	M10,7	2.108	804.1	HWL	290	918.08	911.3	L.O.*	140
_									190			1,111	291	909.16	907.5	DRCP 1	
								-					292	909.08	907.4	COURSE	1
							C.1207						293	912.01	9,808		
5	1	52,961	13.070	7,788	10,061	5,748	915.5	908.5	908.5	907.2	904.1	POND 7	23	907.07	906.1	W.O.*	NO
							1					HWL	294	908,22	906.6	DRCP 1	
													295	907.47	906.3	COURSE	
													296 297	911.37 910.55	908.9		-
									-		-		298	907.80	906.1	-	1
6	4	54,598	20,386	B,084	10,188	6,608	916.3	910.0	910.0	8.809	904.1	BASIN 7	18	908.88	907.7	W.O.*	NO
v	1_1_	U-1,000	20,300	D,004	10,100	5,000		5.0.0	0.0.0	-50.5		INFIL CALCS	299	908.44	906.9	DRCP 2	1 .
													300	910.60	906.4	COURSE	
	1												301	910.78	907.6		
													302	909.47	907.6		
								Ha: L					303	907.78	906.6		
								45.			00	L MATERIA COMP. AND	PIEZ 1	907.90	00000	141.00	
7	1	60,879	18 193	7,805	10,214	6,876	916.1	909.8	909.8	906.5	904.1	WETLAND 1S HWL	304 305	907.67	906.5	DROP 2	NO
											-	HYL	306	910.93	907.4	COURSE	·
		-	-			1		-	-				307	912.78	909.1	COORDE	-
		-			-	ļ		-	_	_			308	908.64	906.5	1	1
						1							BASIN 7	906.70	902.5	WET	1
															901.4	WAT	
8	1	55,784	15 223	7,591	10,684	4,754	914.9	907.9	907.9	906.5	904.1	WETLAND 1S	309	911.91	906.9	W.O.*	NO
					Ĭ							HWL	310	910.53	907.4	DRCP 1	1.
	1												311	908.87	906.7	COURSE	-
			_				1			_			312	907.28	906.0	-	
-		65,641	12,789	7,676	10,643	4,427	915.0	907.3	907.3	908.5	904.1	WETLAND IS	22	906.78	905.7	W.O.	NO
9	1	03,041	12,763	7,010	10,045	4,421	515.0	301.3	507.3	500.5	304.1	HWL	314	907,41	906.2	11.0.	110
_		-			The same	-	_	-	1	-		-	315	906.95	906.0		
								i				1	316	910.27	907.8		
													317	909.49	906.7		
10	1	59,554	20,518	7,743	10,246	6,002	914.6	906.9	910.1	906.8	904.1	BASIN 6A	17	908.16	906.2	LO.	NO
												INFIL CALCS	318	908.19	907.1		1
													319	908.18	907.0		1
									_		-		320 321	906.78	905.8		1
_	_	-				+		1		1			486	911.90	NONE	WET	1
													1		NONE	WAT	
							1						487	908.27	NONE	WET	
					V				N Star		Feet 16				NONE	WAT	
11	1	66,324	12.098	7,501	10,537	3,900	915.0	908.0	900.0	907.2	904.1	POND 7	322	908.38	907.2	W.O.*	NO
									1			HWL	323	907.18	906.1	DROP 1	
	-		-			-		_		-			324 325	907.42	906.3	COURSE	-
		1					-	-		1	1		325	907.54	906.5		-
	1	-	-					1					327	910.38	907.2		1
	1									-			PIEZ 2	907.08	1		1
12	1	138,805	18,454	7,804	10,276	4,527	915.0	906.0	908.0	907.2	904.1	POND 7	328	908.54	907.2	W.O.*	NO
												HWL	329	908.84	907.3	DRCP 1	
								-					330	910.83	907.8	COURSE	1 5
							1	1		1	-	4	331	909.20	907.5	1	-
42	1-4-	95,407	20 345	8,117	10,030	4,927	914.7	907.0	910.2	906.1	904.1	GROUNDWATER		915.00	910.8	L.O.	NO
13	1	93,401	20 345	0,117	10,030	4,021	314,1	501.0	310.2	200.1	204.1	DIOCHDIMIER	334	911.35		s.V.	1,00
	1	-						_		1	1	1	335	914.19		1	1
													336	915,98	912.0		1
	1												337	910.86	906.4		
14	1	176,194	24.097	7,521	10,030	6,834	915.0	908.0	908.0	907.1	904.1	WETLAND 6	15	909.51	907.5	W.O.*	NO
							1					HWL	338	909.47	906.8	DRCP 1	
	-						1		1	-		-	339	909.92	906.9	COURSE	
	1	_		-				-			+		340	912.95 911.32	909,3 907.8	-	-
							1		1-5			1	342	909.47	907.1	_	
15	- 1	178,484	45.324	7,590	10,075	4,975	914.1	907.1	907,1	906.1	904.1	GROUNDWATER		905.70	904.5	W.O.*	N
,,,	1	110,404	TO JACK	1,000	10,010	1,000	1	1	111111111111111111111111111111111111111	-			344	908.96	906.8	DROP 1	
							i						345	908,98	907,3		
								1	. A==	3			348	909.38	907.9		
				7		50	- 5						347	908.10			-
	1	227,984	63.525	8,113	10,000	5,691	914.1	907.1	907.1	906.3	904.1	WETLAND 28	14	908.08	906.4	W.O.*	N
16												HWL	19	910,32	907.3		
16				V.		4				1	1		348	907.37	906.2	COURSE	
16			_		-			-	_	4	-	-	349	908.90	906.9	+	-
16				-	-	+		1		+			DASIN 6	910.33		WET	
16		_		-		The second second	-	-	+	-	+		D/SORT V	0 10.03	000.4		100
16												1100					
		68 171	25 333	7 810	10,040	7 842	3170	909.3	909.3	907.3	504.1	POND 4	13	910.99	902.1		N
16	1	66,171	25 333	7,610	10,040	7,842	917.0	909.3	909.3	907.3	904.1	POND 4	13 353	910.99	907.3 911.8		N
	1	66,171	25 333	7,810	10,040	7,842	917.0	909.3	909.3	907.3	904.1		353 354	914.96 911.40	907.3 911.8 907.4	W.D.	N
	1	66,171	25 333	7,810	10,040	7,842	917.0	909.3	909.3	907.3	904.1		353	914.96	907.3 911.8 907.4 906.7	W.D.	N

NOTES: * INDICATES DROPPED GARAGE ELEVATIONS BASED UPON 12 COURSE BASEMENT

LOW OPENINGS LISTED ARE REPLECTING THE REAR YARD LOW OPENING

WET - INDICATES ENCOUNTERED MOISTURE ELEVATION IN INFILTRATION AREA BORING, WAT - INDICATES WATER ELEVATION FOUND IN INFILTRATION BORING.

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

Date: 03/26/2021 License No. 41578

BENCHWARK

DRAV	YN BY: MM	D JOB NO: 17737PP DATE: 07	/15/2020				
CHEC	K BY: JER	SCANNED [
1	11/02/20	CITY / WATERSHED COMMENTS	MMD				
2	01/13/21	CITY / WATERSHED COMMENTS	MMENTS MMD				
3	02/26/21	CITY / WATERSHED COMMENTS	MMD				
4	03/26/21	CITY / WATERSHED COMMENTS					
5							
NO.	DATE	DESCRIPTION B					

~of~ CROSSTOWN ROLLING ACRES THIRD ADDITION ~for~ CROSSTOWN DEVELOPMENT, LLC 17404 WARD LAKE DRIVE NW **ANDOVER, MN 55304** (612) 799-1471

Livability Standards
All readential lots shall contain at least 29,500 square feet of land which lies above the
100 year food contour. Of this 29,500 square feet, the following additional requirements
must be present.

A LSTS Area Each lot must contain at least 7,500 square feet of contiguous area which is reserved for both the ISTS originally constructed and a future ISTS. The ISTS Area need not be contiguous to the Isiglible building Area or the Yard Area, but the entire ISTS Area must exist at an elevation at least one foot above unsuitable Solis, and must contain Indisturbed Solio or soils which meet the requirements of Rule 7080 of the Minnesota Pollution Control Agency for ISTS construction standards. The ISTS Area may be irregular in shape, provided they do not encrosch into areas reserved by essement or otherwise for roadway, drainage or utility purposes, and provided that all of the area can be reasonably used for ISTS construction without the need for variances.

B, Eligible Building Area Each lot shall contain at least 10,000 square feet of contiguous land which lies at an elevation at least four feet above Unsuitable Solis. The Eligible Building Area may not be Irregular in shape, and should be generally rectangular or covoid, with no panhandles, narrow hecks or peninsules. Eligible Building Areas may not centroach into any areas reserved by essement or otherwise for readway, drainage or utility purposes. Fill may be used to create Eligible Building Area.

C. Yard Area Each lot shall contain at least 12,000 contiguous square feet which:

C. Yard Area Each lot shell contain at least 12,000 contiguous square feet which:

1) Lies above the 100 year flood contour, and

1) Lies at least one floot above soils unsuitable for the intended usage of
the Yard area, and

10) Is contiguous the Eligible Building Area for a distance of at least

10) Is contiguous the Eligible Building Area for a distance of at least

10) Is contiguous the lineal pselmeter of the Eligible Building Area.

Yard Areas may encreach into the desilicated assement area which lies at a distance of
ten feet from the perimeter of the lot, and may encreach into area smeared by
easement or otherwise for other public utility purposes, but may not encreach into any
not encreach into any areas within the 100 year flood contour or into designated
wellands, Yard Areas may be tregular in shape except within thirty feet of the
locations where the Yard Area is contiguous to the Eligible Building Area, at which
locations the fand Areas shape be a logical excending or expension of the generally
Yard Area.

E. Low Floor Elevations

Low Floor Elevations.

J For walkout designs, the low floor elevation shall be at least one foot above the 100 year flood contour, but, notwithstanding the 100 year flood contour, not less than one foot above unsulable soils, as determined by the City's engineer.

I) For other designs, the low floor clevation shall be at least one foot above the 100 year flood contour, but, notwithstanding the 100 year flood contour, not, notwithstanding the 100 year flood contour, not less than one foot above unsultable soils, as determined by the City's engineer.



I HEREBY CERTIFY THAT THIS PLAN 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.

ADAM CINKEL

DATE: 03.26.2021 LIC. NO. 43983

E.G. RUD & SONS, INC. Professional Land Surveyors www.egrud.com 6776 Lake Drive NE, Suite 110 Lino Lakes, MN 55014

Tel. (651) 361-8200 Fax (651) 361-8701

I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly Registered Land Surveyor under the laws of the State of Minnesota. Que Ela JASON E. RUD Date: 03/26/2021 License No. 41578

Lot	Block	Total Lot Area (sq. ft.)	(sq. fl.)	Septic Area (sq. ft) (sq. ft.)	(sq. ft.)	Proposed Building Pad 4' Above Unsuitable (sq. ft.)	Garage Floor Elevation	Floor Elev.	Proposed Low Opening	Elevation	Highest Anticipated Groundwarer Elevation	Low Floor Determining Factor	Boring #	Boring Elevation	Mottles Elevation	Building Type	Custom Graded
18	1	76,589	27,045	7,692	10,074	7,047	914.1	907.1	907.1	907.1	904.1	BASIN 4C INFIL. CALCS	357 358	905.93 908.13	905.3	W.O.* DROP 1	NO .
													359 360	913.26	909.3	COURSE	
													361 PIEZ 4	910.35 910.13	908.5		
													484	909,53	NONE	WET	
19	1	62,563	28,498	7,617	10,094	7,330	918.0	911.0	911,0	906.1	904.1	GROUNDWATER	362	914.99	910.5	WAT W.O.*	NO
						0							363 364	911.27	906.8 906.4	DROP 1 COURSE	
													385 386	914.48 911.72	909.7 909.1		
PARK	1	175,798	130,818	NA	NA	NA	NA NA	NA	NA.	NA	904.1	NA	11 12	908.25	906.3 906.5		
													BASIN 1		903.4	WET	
													BASIN 8A	908.80	902.6 903.8	WAT	
													BASIN 8B	908.43	902.7	WAT	
										-			PIEZ 5	908.15	902.7	WAT	
1	2	56,209	17,212	7,851	10,642	5,827	916.6	908.9	912.1	908.7	904.1	POND 6 HWL	240 241	910.63	908.6	L.O.	NO
												SIVY	242	911.80	908.5		
													272 273	909.71 909.93	908.0 908.4		
2	2	53,600	13,660	7,851	10,000	5,607	915.9	908.9	912.1	908.7	904.1	POND 6 HWL	243	910.59	908.3 910.9	L,O.°	NO
													245 270	913.22 910.68	909.7 906.7	COURSE	
													271	910.68	908.4		
3	2	53,600	13,965	7,851	10,000	4,536	915.0	908.9	912.1	908.7	904.1	POND 6 HWL	248 247	911.59 911.62	909.8 909.1	DROP 1	NO
-	-		1				-						248 268	911.07	908.9	COURSE	+
4	2	52,533	12,163	7,935	10,665	6,557	915.9	908.9	912.1	908.7	904.1	POND 6	200 249	910.63	908.8 907.8	L,Q.°	NO
		22,000	12,100	7,800	10,000	0,007	510.0	000.0	012.1	000.1	557.1	HWL	250 251	909.13	907.0	DROP 1	
				1									268	910.51	908.3	COURSE	
5	2	46,620	21,992	7,863	10,158	6,911	915.9	908.9	912,1	908.7	904.1	POND 6	267 252	910.47	908.8	L.O.*	NO
				1		-			-			HWL	253 254	910.93	908.6	DROP 1	
							ļ						284 285	913.39 912.03	910.4		
- 8	2	50,998	20,542	7,678	10,000	4,422	916.7	910.4	913.6	910.1	904.1	BASIN 10	18	914.04	910.4	L.O.*	NO
												INFIL. CALCS	255 258	911.26 911.26	908.8 908.8	COURSE	
	-		1										262 263	914.82	910.5 910.5		-
	-							1					BASIN 4	911.74	902.4	WET	
7	2	88,059	20,615	7,902	10,185	7,601	915.6	908.6	911.8	908.8	904.1	WETLAND 7	257 258	909,65	907.7	L.O.*	NO
												in the	259	909.37	907.5	COURSE	
													280 261	911.06 914.48	907.8 910.5		
_		-						1	-	-		-	BASIN 5 485	908.80	904.6 903.5	WET	+
															NONE	WET	
8	2	101,825	17,196	7,708	10,099	5,171	915.0	908.7	:911.9	908.7	904.1	POND 5 HWL	21 412	906.69	910.2	L.O.* DROP 2	NO
												11111	415	916.48	912.0	COURSE	
	-							-	-				416 417	913.08	910.6 908.5		
	-		+	-							-	_	PIEZ 3	912.48 906.88	908.5	-	+
9	2	52,614	20,502	7,598	10.308	3,370	918.2	910,5	913.7	910.5	904.1	BASIN 9 INFIL. CALCS	409 410	917.02	915.0 915.2	L.O.	NO
												THE MAN OFFICE OF	411	916.50 916.08	912.3 912.3		
													414	916.32	913.2	120000	
													BASIN 3	1	903.7 902.4	WAT	
10	2	47,998	18,029	7,707	10,886	5,780	917.5	910.5	913.7	910.5	904.1	BASIN 9 INFIL. CALCS	351	916.11	913.4 909.8	L.O.°	МО
												_	400	911.01	910.2	COURSE	4
					1 ° v					1			408	913.70	911.2	WET	
														910.17	NONE	WAT	
- 11	2	47,662	22,139	7,702	10,159	10,030	914.0	907.2	915.3	906.1	904.1	GROUNDWATER	402	911.19 909.53		FB	NO
				-						11			403 404	909.98			
40		47.000	99 886	7,747	10.030	1764	914.8	907,1	915.2	906.1	904.1	GROUNDWATER	405	913.07 913.79	910.4	FB	NO
12	2	47,663	22,223	1,141	10,030	4,761	₩14.6	907,1	910.2	908.1	104.1	OROUNDWATER	396	915.57	911.4	FB	NO
			-										398 399	917.37 916.49	910.7		
13	2	46,600	15,328	7,510	10,585	5,510	918.8	910.5	910.5	910.5	5G4.1	PER	400 391	913.17	910.2	SIDE W.C	D. NO
		.0,000	.0,000	7,010	11.00	3,010	710.0	1 310.0		7,0.0	-35111	OVERFLOW	392	909.19	900.5	DROP 2	
			-						2.5				314	914.42	910.9	CONOC	
		l-								1			BASIN 2	916.90 906,29	903.0	WET	1
															902.3	WAT	

NOTES: * INDICATES DROPPED GARAGE ELEVATIONS BASED UPON 12 COURSE BASEMENT

LOW OPENINGS LISTED ARE REFLECTING THE REAR YARD LOW OPENING

WET - INDICATES ENCOUNTERED MOISTURE ELEVATION IN INFILTRATION AREA BORING. WAT - INDICATES WATER ELEVATION FOUND IN INFILTRATION BORING,

BENCHMARK

DRAN	WN BY: MM	D JOB NO: 17737PP	DATE: 07/15/2020
CHEC	K BY: JER	SCANNED [
1	11/02/20	CITY / WATERSHED CO	MMENTS MMD
2	01/13/21	CITY / WATERSHED CO	MMENTS MMD
3	02/26/21	CITY / WATERSHED CO	MMENTS MMD
4	03/26/21	CITY / WATERSHED COI	MMENTS MMD
5			
ND.	DATE	DESCRIPTION	BY

LIVABILITY CHART

~of~ CROSSTOWN ROLLING ACRES THIRD ADDITION ~for~ CROSSTOWN DEVELOPMENT, LLC 17404 WARD LAKE DRIVE NW **ANDOVER, MN 55304** (612) 799-1471

Livebility Standards

All residential lots shall contain at least 29,500 square feet of land which lies above the
100 year flood contour. Of this 29,500 square feet, the following additional requirements
must be present.

must be present.

A, 1STS Area Each lot must combin at least 7,500 square feet of contiguous area which is reserved for both the ISTS originally constructed and a future ISTS. The ISTS Area need not be contiguous to the BigDib building Area or the Yord Area, but the entire 1STS Area must exist eat an elevation of least one foot above. Unsuitable Solot future 1STS Area must exist eat an elevation of least one foot above. Unsuitable Solot future 1SES of the Minimisous Pollution Control Agency for ISTS construction standards. The ISTS Area may be interrugular in shape, provided they do not encrosch into areas reserved by easement or otherwise for roadway, derinage or utility purposes, and provided that call of the erea can be reasonably used for ISTS construction without the need for variances.

B. Eligible Building Area Each lot shall contain at least 10,000 square feet of contiguous land which lies at an elevation at least four feet above Unsuitable Solls. The Eligible Building Area may not be irregular in stape, and should be generally rectangular or ovoid, with no panhandles, narrow necks or peninsulas. Eligible Building Areas may not encroach into any areas reserved by easternator otherwise for roadway, drainage or utility purposes. Fill may be used to create Eligible Building Area.

C. Yard Area Each lot shall contain at least 12,000 contiguous square feet which:

If the set least one food above soils unsurpoise for the intensed usage or in the list of the list of

D. Building Pad Areas The entire Building Pad must lie within the Eligible Building Area, and shall meet the separation requirements for the Eligible Building Area.

E. Low Floor Elevations

I) For wellkout designs, the low floor elevation shall be at least one foot above the 100 year flood contour, but, notwithstanding the 100 year flood contour, rout, notwithstanding the 100 year flood contour, not least than one foot above unsuitable soils, as determined by the City's engineer.

I) For other designs, the low floor elevation shall be at least one foot above the 100 year flood contour, but, notwithstanding the 100 year flood contour, not least than one of a bove unsuitable soils, as determined by the City's engineer.



I HEREBY CERTIFY THAT THIS PLAN 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 MISINESOTA.

ADAM GYNKEL

DATE: 03.28.2021 / LIC. NO. 43963

E.G. RUD & SONS, INC. 185,1977 Professional Land Surveyors www.egrud.com 6776 Lake Drive NE, Suite 110 Lino Lakes, MN 55014 Tel. (651) 361-8200 Fax (651) 361-8701

Lat	Block	Total Lot Area (sq. fl.)	Yard Area (sq. fl.)	Septic Area (sq. ft) (sq. ft.)	(sq. ft.)	Proposed Building Pad 4' Above Unsullable (sq. ft.)	Garage Floor Elevation	Proposec Low Floor Elev.	Proposed Low Opening	Elevation	Highest Anticipated Groundwarer Elevation	Low Floor Determining Factor	Boring #	Boring Elevation	Mottles Elevation	Building Type	Custom Graded
14	2	48,978	14,375	7,614	10,454	5,807	916.8	910.5	910.5	910.5	904.1	PER OVERFLOW	25 385	906.80 907.28	905.6	W.O.* DROP 2	NO
													388 388	907.33	906.3	COURSE	-
													389	908.76	905 8		
			-	-		-							390 481	905.67 906.24	904.8 901.6	WET	
15	2	43,618	21,982	7,849	10,168	9,301	915.9	908.9	912.1	908.1	904.1	GROUNDWATER	381	909.15	900.9	L.O.°	No
13	-	45,010	21,002	7,043	10,100	3,001	010.0	300.5	572.1	500.1	504.1	CHOCHENTALL	382	911.28	907.5	DROP 1	
					-		-						383	910,64	907.5	COURSE	1
16	2	49,490	20,088	7,587	10,450	10,251	914.0	906.3	914 4	906.1	904.1	GROUNDWATER	387 376	908.17	906.9	F.B.	NO
10		49,490	20,000	7,367	10,430	10,231	814.0	800.3	9144	800.1	804.1	GROUNDWATER	377	909.63	906 3	F.D.	NO
							-	-					378 379	909.32 912.46	906.8 910.0		-
	75		70.000	2.000	10.170		2007	200	0405	908.0	0014	BLOBIO	380	909.64	907.3		1/0
17	2	43,640	12,900	7,775	10,172	7,838	916.1	908.4	916.5	908,0	904.1	BASIN 8 INFIL CALCS	371 372	918.94 919.75	913 6 914.8	F.B.	NO
	-												373 374	919.29 917.59	915.3 912.6		
													375	911.72	908 6		
		_		-			-		-		-		482	910,32	903.5 902.5	WET	+-
18	2	50,098	19,674	8,043	10,231	5,245	918.6	910.9	919.0	906.1	904.1	GROUNDWATER	367 368	914.38 919.84	913 9	F.B.	NO.
	50												369	919.48	915.2 913.3		
			1-310							-			370 419	917.55	913 8 914.3		
1	3	270,941	13,435	7,748	10,001	4,085	914.0	907.0	907.0	906.2	903.4	FEMA	3 420	907.44	905.1	W.O.*	NO
	100											HWL	421	908.16	905.2	COURSE	
									-	-			422 423	910.43 912.86	908.8		
													425	908.74	905.4		
	-	-										-	479	910.18	901.4	WET	+
													480	910.70	904 0	WET	
													BASIN 9	910.70	904.0	WET	
2	3	115,327	15,874	7,513	10,001	4,985	914.5	907.5	907.5	906,2	903.4	FEMA	424	913.45	902 5	WAT W.O.*	NO
		110,021	10,011	1,010	10,001	1,000						HWL	426	908.26	905.1	DROP 1	
_	-	1					-	-			-		427 428	907.55	905.2 908.2	COURSE	
3	3	121,902	13,006	7,626	10,329	3,945	914.0	907.0 -	907.0	906.2	903.4	FEMA	429 430	907.62	905.6	W.o.*	NO
		121,002	13,000	7,020	10,029	0,040	314.0	0,100	301.0	200.2	000.4	HWL	431	907.48	904.8	DROP 1	
		-	-	-				1		E		-	432 433	907.21	905.0 905.3	COURSE	+
- 4	3	129,323	12,340	7,804	10,005	4,504	914.0	907.7	907.7	906.7	903.4	POND 1	434	907.54	905.4 905.5	W.O.*	NO
	-	125,323	12,340	7,004	10,000	4,004	319.0	307.1	801.7	300.7	303.4	HWL	435	911.88	9074	DROP 2	
	-		-		-		1	-		-	-	 	436 437	912.85 911.56	907.9	COURSE	+
													438 439	908.13 908.67	904.8		
5	3	87,175	12,274	7,580	10,059	5,167	914.8	907.8	907.8	906,2	903.4	FEMA	440	909.54	905.5	W.o.*	NO
	+	1	-		-	-	+	1				HWL	441	908.14	905 1	DROP 1	
													443	909.90	907.4 906.0	-	1
6	3	85,215	21,621	8,564	10,771	5,903	915.5	908.5	908 5	907.0	903.4	POND 2	445	909.32	906.0	W.O.*	NO
	-										-	HWL	448 447	908.19	905.5	DROP 1	
									75				448 449	912.00	908 0		1
7	3	56,764	12,276	8,785	10,119	5,008	915.0	908.0	908 0	907.0	903.4	POND 2	450	910.12 912.76	909.1	W,0.*	NO
					-							HWL	451 452	913.08	909.1	OROP 1	
	15		22										453	912.95	909.1		1
8	3	72,465	13,622	7,702	10,112	4,355	914.5	907.5	907.5	905.2	903.4	FEMA	454 455	913.02 907.10	909.4	W.O.4	NO
								1	-		-	HWL	456 457	907.89 915.73	905 4	DROP 1	
													458	911.98	907 5	Counse	
8	3	221,559	17,962	8,071	10,016	4,983	913.3	907.0	907.0	906.2	903.4	FEMA	459	910.26		W.O.*	NO
			1						1	-		HWL	475 476	912.08	908.9	DROP 2	
													477	906,94	903.9	COURSE	
10	3	176,432	12,337	7,653	10,023	5,677	914.5	907.5	907.5	906.2	903.4	FEMA	478 460	909.56 908.24		W.O.*	NO
.,	<u> </u>	,,,,,,,,		.,,	1-1-60		1		1			HWL	461	908.35	903 5	DROP 1	
			100										463	913.71 912.18	908.4	COURSE	+
11	3	108,161	13,128	7,560	10,225	5,788	914.5	907.5	907.5	906.2	903.4	FEMA	454	911.16 912.82		W.o.*	NO
- "	3	100,101	10,128	7,300	IU,EEA	3,100	814.5	0.100	901.3	2.00.Z	503.4	HWL	465	908.18	903.7	DROP 1	
		-					1:						466 467	909.62 911.06		COURSE	+
													468 469	908.37	904.4		
12	3	169,837	12,646	7,657	10,388	5,672	914.5	907.5	907 5	906.2	903.4	FEMA	470	907.75	904.4	W.o.*	NO
					-	-						HWL	475	907.46 908.25		DROP 1	
				76									473	909.11	905.4	2301101	
			1				1		1	1		1	474	910.20	904 9	1	1

NOTES: "INDICATES DROPPED GARAGE ELEVATIONS BASED UPON 12 COURSE BASEMENT

LOW OPENINGS LISTED ARE REFLECTING THE REAR YARD LOW OPENING

WET - INDICATES ENCOUNTERED MOISTURE ELEVATION IN INFILTRATION AREA BORING.
WAT - INDICATES WATER ELEVATION FOUND IN INFILTRATION BORING.

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

Date: 03/26/2021 License No. 41578

BENCHMARK

DRAV	YN BY: MM	D JOB NO: 17737PP	DATE: 07/15/2020		
CHEC	K BY: JER	SCANNED [
1	11/02/20	MMENTS MMD			
2	01/13/21 CITY / WATERSHED COMMENTS				
3	02/26/21	CITY / WATERSHED CO	MMENTS MMD		
4	03/26/21	CITY / WATERSHED CO	MMD STRAMP		
5					
NO.	DATE	DESCRIPTION	BY		

CITY OF HAM LAKE PLANNING COMMISSION REQUEST APPLICATION INSPECTION REPORT

MTG DATE: April 26, 2021

INSPECTION ISSUED TO: Jonathan Fisher
APPLICANT/CONTACT:Jim Malvin & Tim Lang
TELEPHONE NUMBER: 612-859-2048 (Jim) or Jim.Malvin@comcast.net
BUSINESS/PLAT NAME: Evergreen Estates
ADDRESS/LOCATION OF INSPECTION: <u>21-32-23-11-003</u> , <u>21-32-23-12-0003</u> , <u>21-32-23-13-0002</u> & <u>003</u> and <u>21-32-23-14-0004</u> .
APPLICATION FOR: Preliminary Plat
RECOMMENDATION:
DATE:
PLANNING COMMISSIONER SIGNATURE:



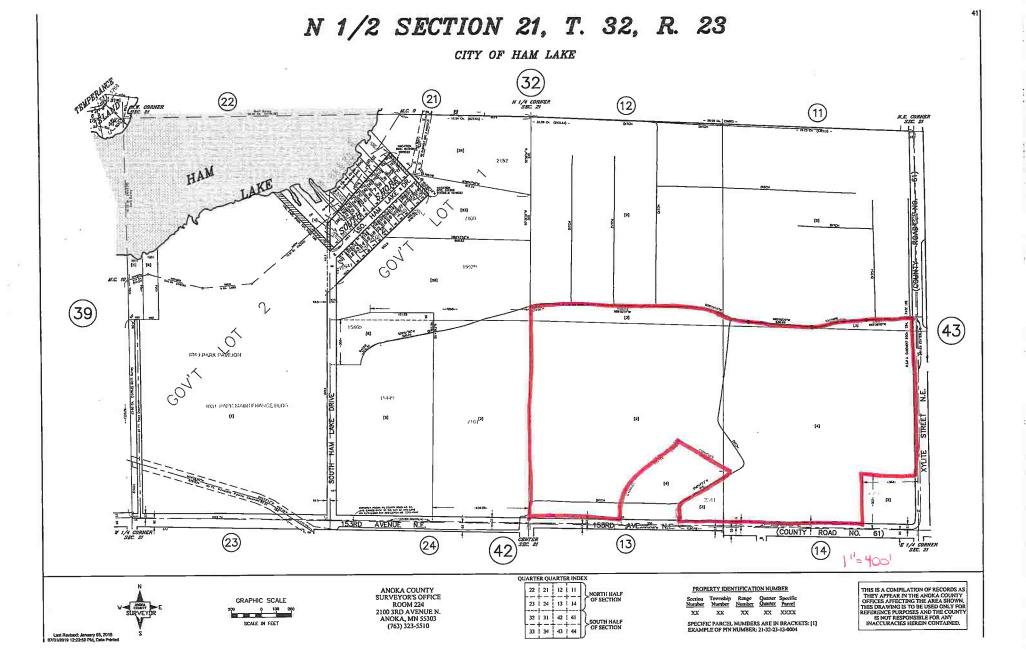
PLANNING REQUEST

CITY OF HAM LAKE

15544 Central Avenue NE Ham Lake, MN 55304

Phone (763) 434-9555 Fax (763) 235-1697

Date of Application	Date of Receipt 12-30-20
Date of Application	Receipt #
Meeting Appearance Dates: Planning Commission 4-24-202/	City Council
Sketch Plan Preliminary Plat Approval* Final Plat Approval Rezoning*	Commercial Building Permit Certificate of Occupancy Home Occupation Permit Conditional Use Permit (New)* Conditional Use Permit (Renewal)
	Other
*NOTE: Advisory Signage is required for land use altera application also requires a Public Hearing. Suc	
Development/Business Name: Eurgeen	Estatos
Address/Location of property: 153-1 Ave N	E And Xylite, Nothwest corner
Legal Description of property: See Public He	aring Notice
PIN # 21-32-23-11-0003 Current Zon	ning $\frac{\mathcal{K} A}{\mathcal{K}}$ Proposed Zoning $\frac{\mathcal{K} - I}{\mathcal{K}}$
Notes: 21-32-23-12-0003 21-32-23-13-	0002 +0003 +21-32 23.14-0009
Applicant's Name: I'm MALVIN, Tim Business Name: Timbervalley Development	LANG
Address 320 Civic Hayun Dr.	
City Chelefines	
Phone 763-780-9090 Cell Phone (12-	
Email address Time MAINING Com C	OST Net
You are advised that the 60-day review period required not begin to run until <u>all</u> of the required items have bee	by Minnesota Statutes Chapter 15.99 does
SIGNATURE	DATE 11.30-2e
SIGNATURE	*************
- FOR STAFF USE	
ACTION BY: Planning Commission	DESCRIPTION OF THE STATE OF THE



CITY OF HAM LAKE

15544 Central Avenue NE Ham Lake, Minnesota 55304 (763) 434-9555 Fax: (763) 434-9599

NOTICE OF PUBLIC HEARING CITY OF HAM LAKE COUNTY OF ANOKA STATE OF MINNESOTA

TAKE NOTICE, that pursuant to the requirements of Minnesota Law, a public hearing shall be held before the Ham Lake Planning Commission on Monday, April 26, 2021 at 6:01 p.m. at the City Hall located at 15544 Central Avenue NE for the purpose of considering the application of Jim Malvin and Tim Lang, Timber Valley Development, requesting preliminary plat approval and rezoning to R-1 (single family residential) for the development of Evergreen Estates (36 residential single family lots) located in Section 21, a parcel of certain land situated in the City of Ham Lake, Anoka County, Minnesota and which is described as follows to wit:

Parcel A:

The East Half of the Northeast Quarter, Section 21, Township 32, Range 23, Anoka County, Minnesota, except the following described parcels:

The South 363 feet of the East 363 feet of the Southeast Quarter of the Northeast Quarter of Section 21, Township 32, Range 23, Anoka County, Minnesota.

That part of the South Half of the Northeast Quarter of Section 21, Township 32, Range 23, Anoka County, Minnesota, described as follows:

Beginning at a point on the South line thereof, distant 1590.68 feet Westerly of the Southeast corner of said South Half of the Northeast Quarter; thence North 88 degrees 44 minutes 59 seconds West, assumed bearing along said South line a distance of 380.00 feet; thence North 01 degrees 15 minutes 01 seconds East, a distance of 60.00 feet; thence Northeasterly along a tangential curve, concave to the Southeast having a radius of 420.96 feet and a central angle of 53 degrees 55 minutes 59 seconds, a distance of 396.25 feet; thence North 55 degrees 11 minutes 00 seconds East, tangent to said curve, a distance of 151.88 feet; thence Northeasterly along a tangential curve, concave to the Northwest having a radius of 289.65 feet and a central angle of 22 degrees 44 minutes 54 seconds, a

distance of 115.00 feet; thence South 59 degrees 02 minutes 45 seconds East, not tangent to said curve, a distance of 405.92 feet; thence South 58 degrees 44 minutes 22 seconds West, a distance of 410.00 feet to the intersection with a line which bears North 01 degrees 15 minutes 01 seconds East from the point of beginning; thence South 01 degrees 15 minutes 01 seconds West, along said line, a distance of 152.35 feet to the point of beginning, Anoka County, Minnesota.

That part of the North Half of the Northeast Quarter of Section 21, Township 32, Range 23, Anoka County, Minnesota, described as beginning at the Northeast corner of said Northeast Quarter; thence on an assumed bearing of South 0 degrees 21 minutes 16 seconds East along the East line thereof a distance of 1240.74 feet; thence South 87 degrees 38 minutes 10 seconds West 476.67 feet; thence South 75 degrees 28 minutes West 163.64 feet; thence North 85 degrees 10 minutes 27 seconds West 536.89 feet; thence North 70 degrees 25 minutes 49 seconds West 261.00 feet; thence North 88 degrees 02 minutes 11 seconds West 1057.63 feet; thence South 77 degrees 06 minutes West 88.96 feet to the West line of said Northeast Quarter; thence North 0 degrees 44 minutes 13 seconds East along said West line 1262.95 feet to the Northwest corner of said Northeast Quarter; thence South 87 degrees 30 minutes 27 seconds East along the North line thereof 2537.79 feet too the point of beginning.

Parcel B:

That part of the West Half of the Northeast Quarter of Section 21, Township 32, Range 23, Anoka County, Minnesota, lying Southerly of the following described line:

Beginning at a point on the East line of said Northeast Quarter distant 1240.74 feet Southerly of the Northeast corner thereof, for the purpose of this description, said East line is assumed to bear South 00 degrees 21 minutes 16 seconds East; thence South 87 degrees 38 minutes 10 seconds West 476.67 feet; thence South 75 degrees 28 minutes West 163.64 feet; thence North 85 degrees 10 minutes 27 seconds West 536.89 feet; thence North 70 degrees 25 minutes 49 seconds West 261.00 feet; thence North 88 degrees 02 minutes 11 seconds West 1057.63 feet; thence South 77 degrees 05 minutes West 88.96 feet to the West line of said Northeast Quarter and there terminating.

Except the following described property:

That part of the South Half of said Northeast Quarter, described as follows:

Beginning at a point on the South line thereof, distant 1590.68 feet Westerly of the Southeast corner of said South Half of the Northeast Quarter; thence North 88 degrees 44 minutes 59 seconds West; assumed bearing along said South line, a distance of 380.00 feet; thence North 01 degrees 15 minutes 01 seconds East, a distance of 60.00 feet; thence Northeasterly along a tangential curve, concave to the Southeast, having a radius of 420.96 feet and a central angle of 53 degrees 55 minutes 59 seconds, a distance of 396.25 feet; thence North 55 degrees 11 minutes 00 seconds East, tangent to said curve, a distance of 151.88 feet; thence Northeasterly along a tangential curve, concave to the Northwest having

a radius of 289.65 feet and a central angle of 22 degrees 44 minutes 54 seconds, a distance of 115.00 feet; thence South 59 degrees 02 minutes 45 seconds East, not tangent to said curve, a distance of 405.92 feet; thence South 58 degrees 44 minutes 22 seconds West, a distance of 410.00 feet to the intersection with a line which bears North 01 degrees 15 minutes 01 seconds East from the point of beginning; thence South 01 degrees 15 minutes 01 seconds West, along said line, a distance of 152.35 feet to the point of beginning.

At such hearing both written and oral comments will be heard.

DATED: April 16, 2021

Jennifer Bohr Zoning and Building Clerk City of Ham Lake



Office (763) 862-8000 Fax (763) 862-8042

Memorandum

Date:

April 21, 2021

To:

Planning Commissioners

From:

Tom Collins, City Engineer

Subject:

Evergreen Estates

Introduction:

The Title Sheet, Preliminary Plat, Grading, Erosion Control and Tree Protection Plan, Livability Plan, Street and Storm Sewer Profiles, Stormwater Sizing & Location Plan, Details, Stormwater Drainage Report and Stormwater Pollution Prevention Plan were received April 20th for the proposed 36 lot residential development located on the 75.4 combined acres of parcels 21-32-23-11-0003, 21-32-23-12-0003, 21-32-23-13-0002, 21-32-23-13-0003 and 21-32-23-14-0004. The parcels are currently zoned Rural Single Family Residential (R-A) and will be zoned R-1. The project conforms to the Sketch Plan that was approved at the May 4, 2020 City Council meeting. All of the prior review comments have been addressed.

Discussion:

The plans include construction of a 10-foot-wide path on the north side of 153rd Avenue right-of-way from Quamba Street to the west. In addition, a 15-foot-wide path easement is included for the 4 lots adjacent to Xylite Street as per the May 20, 2020 Park and Tree Committee recommendation approved at the June 1, 2020 City Council meeting.

The Revised Braun Geotechnical Exploration Report, dated March 9th, adequately addressed prior review comments. The March 10th Tradewell septic certification certifies that each of the proposed lots will support two standard septic systems in accordance with Minnesota Rules 7080.

The Coon Creek Watershed District conditionally approved the development at the April 12th Board of Managers meeting. One condition is that documentation be provided from the DNR if the proposed project includes endangered or threatened species, rare natural communities, colonial waterbird nesting sites, migratory waterfowl concentration areas, deer wintering areas or wildlife travel corridors.

The initial Anoka County Transportation Division review letter, dated December 7, 2020, is attached, along with a follow-up letter dated April 20th. The County found that the northerly extension of Radisson Road into the plat was not feasible. The County is requiring that Quamba Street be constructed as right-in/right-out. This will require a revision to the plans, and potentially additional right-of-way dedication. The County is requiring construction of a west bound right turn lane at Quamba Street, a west bound right turn lane and east bound left turn lane at Urbank Street and a south bound right turn lane and a north bound left turn lane at 154th Lane. Per the attached April 20th email, the County is okay with the County Road 61 driveway access

for Lots 1, 2, 9 and 10 of Block 5. The County is requiring that the driveways be located directly adjacent to the side yard drainage and utility easements shared by Lot 1 and 2 and by Lots 9 and 10.

Recommendations:

It is recommended that the Preliminary Plat of Evergreen Estates be recommended for approval to the City Council, conditioned on the Plans being updated to meet the requirements of the Anoka County Transportation Division.

Tradewell Soil Testing 18330 Dahlia Street NW Cedar, MN 55011

March 10th, 2021

RFC Engineering 13635 Johnson Street NE Ham Lake, MN 55304 Attention: Tom Collins

Dear Mr. Collins:

As a licensed site evaluator who conducted the soil borings in Evergreen Estates for Timber Valley Development, I found the following: Each boring has at least 12" of natural, undisturbed and unmottled soil. In order to design and install a standard soil treatment system according to MN Chapter 7080 Code, at least 12" of natural soil with no signs of mottling is required. Therefore, each of the proposed lots will support 2 "standard" septic systems within the 7,500 square feet septic area as shown on the Grading Plan.

Ludewell

Sincerely,

Mark Tradewell MPCA #307



NOTICE OF PERMIT APPLICATION STATUS

Project:

Evergreen Estates

Date:

April 13, 2021

Applicant:

Timber Valley Development 620 Civic Heights Dr, Ste 100

Circle Pines, MN 55014

Permit Application#:

20-103

Purpose:

Construction of 36 single family lots, residential streets,

associated infiltration basins and NURP pond.

Location:

2341 153rd Ave NE, Ham Lake

At their meeting on April 12, 2021, the Board of Managers of the Coon Creek Watershed District **conditionally approved** the above referenced project with 5 conditions and 3 stipulations: **This is NOT a permit.**

ISSUES/CONCERNS:

ISSUES/CONCERNS:	
ISSUE	NEED
Escrows: \$2,000 + (39.96 ac * \$500/ac = \$21,980.00	1. Receipt of escrows.
Stormwater & Hydraulics: The applicant is not meeting the volume management requirement equivalent to infiltrating runoff from the first inch of precipitation; however, the applicant is infiltrating 72% of the requirement and is achieving the maximum extent practicable due to site constraints. • The elevation for the internal weir and orifice of OCS D is inconsistent between detail and HydroCAD model. • Rain Gaurdians to Basin D are not labeled on sheet C2.2 of the Civil Plan set. • Drainage Narrative states that there are 6 proposed infiltration basins. Plans only show 5.	 Update the elevation of the internal weir and orifice for the OCS D to be consistent between detail and HydroCAD model. Label Rain Gaurdians to Basin D on Sheet C2.2 of the Civil Plan set. Update Drainage Narrative to identify correct number of infiltration basins.
Wildlife: The proposed project may include endangered or threatened species, rare natural communities, colonial waterbird nesting sites, migratory	5. Provide documentation from the DNR if the proposed project includes endangered or threatened species, rare natural communities, colonial

waterfowl concentration areas, deer wintering areas or wildlife travel corridors.	waterbird nesting sites, migratory waterfowl concentration areas, deer wintering areas or wildlife travel corridors.

To secure Board review and obtain your permit, the District must receive:

Conditions:

1. Receipt of escrows.

- 2. Update the elevation of the internal weir and orifice for OCS D to be consistent between detail and HydroCAD model.
- 3. Label Rain Gaurdians to Basin D on Sheet C2.2 of the Civil Plan set.
- 4. Update Drainage Narrative to identify correct number of infiltration basins.
- Provide documentation from the DNR if the proposed project includes endangered or threatened species, rare natural communities, colonial waterbird nesting sites, migratory waterfowl concentration areas, deer wintering areas or wildlife travel corridors.

After issuance, the permit will include the following stipulations that need to be fulfilled before permit closeout:

Stipulations:

1. Submittal of as-builts for the following stormwater management practices, including volume and critical elevations:

Stormwater Treatment Practices	Number
Infiltration Basins	5
Wet Sedimentation Pond	5
RainGuardians	4
Outlet Control Structures	7
Catch Basin Sump	3
Sediment Forebay	3

- 2. Completion of post construction infiltration tests on Infiltration Basins 8, A, B, C, and D by filling the basin to a minimum depth of 6 inches with water and monitoring the time necessary to drain, or multiple double ring infiltration tests to ASTM standards. The Coon Creek Watershed District shall be notified prior to the test to witness the results.
- 3. If dewatering becomes necessary, provide DNR dewatering permit and well-field location, rates, discharge location, schedule and quantities or dewatering plans must be submitting to the district 7 days prior to activity for review and approval.

Please be advised that **this is NOT a permit**, and that work without a permit is a violation of the terms of the Coon Creek Watershed District Rule 5.1. If you have any questions, please call 763-755-0975.

Sincerely,

Erin Edison

Water Resource Regulation Coordinator

CC:

File 20-103

Ed Matthiesen, Stantec Eileen Weigel, Stantec Tom Collins, Ham Lake

Note: Please respond to each of these items in writing when resubmitting the revised plans to the District. Resubmittals must include two hard copies and an electronic version sent to permitsubmittals@cooncreekwd.org. **Please submit written responses below the original typed comments, using extra sheets as necessary, addressing comments from the District.** If you have any questions, feel free to contact Erin Edison at (763) 755-0975. Pursuant to Coon Creek rule 7.3 deficiencies must be addressed and resubmitted within 60 days. Failure to so shall be deemed a withdrawal of the permit application.



DEC **21** 2020 By:

Jennifer Bohr City of Ham Lake 15544 Central Ave. NE Ham Lake, MN 55304

December 7, 2020

RE: Sketch Plan - Evergreen Estates

Dear Jennifer,

We have reviewed the Sketch Plan for Evergreen Estates to be located north of CR 61 (153rd Avenue NE) and west of CR 61 (Xylite Street NE) within the City of Ham Lake, and I offer the following comments:

An additional 27 feet of right of way along CR 61 (153rd Ave. and Xylite St.) will be required for future reconstruction purposes (60 feet total right of way width north and west of CR 61 centerline). Any existing driveways or field entrances are to be removed and the ditch section restored to match existing depth, slope, and grades. Right of access should be dedicated to Anoka County along CR 61 (153rd Ave. and Xylite St.) with the exception for the approved street accesses. It is recommended that the sketch plan be reconfigured to eliminate the 4 direct residential access points onto county roads. Radisson Road NE should be extended north to accommodate accesses on 153rd Ave. and a CR 61 EB left turn lane and WB right turn lane will be required along 153rd Ave. at this extended Radisson Road NE. If a Radisson Road NE connection isn't feasible, a RI/RO at Quamba Street would be required as an EB left turn lane would not be feasible so close to Radisson Road NE. A WB right turn lane would then be required at Quamba Street. The centerlines for the 2 additional proposed accesses should be aligned directly across from Urbank Street NE and 154TH Lane NE, respectively, to reduce the number of conflict points onto county roads. Urbank Street NE will require an EB CR 61 left turn lane and a WB CR 61 right turn lane. 154th Lane NE will require a NB CR 61 left turn lane and a SB CR 61 right turn lane. Please note that no plantings or private signs will be permitted within the county right of way and care must be exercised when locating private signs, buildings, structures, plantings, berms, etc. outside of the county right of way, so as not to create any new sight obstructions for this section of CR 61.

ACHD would like to work with local governments in promoting compatibility between land use and the county highway system. It should be recognized that residential land uses located adjacent to County highways often results in complaints about traffic noise. Existing and/or future traffic noise from CR 61 (153rd Ave./Xylite St.) could exceed noise standards established by the Minnesota Pollution Control Agency (MPCA), the U.S. Department of Housing and Urban Development, and the U.S. Department of Transportation. Minnesota Rule 7030.0030 states that municipalities are responsible for taking all reasonable measures to prevent land use activities listed in the MPCA's Noise Area Classification (NAC) where establishment of the land use would result in violations of established noise standards. It is advised that the City and the Developer assess the noise situation for this development as it is proposed to be located directly

adjacent to CR 61, and take the level of action deemed necessary to minimize the impact of any highway noise by incorporating the appropriate noise mitigation elements into the design and phasing of this plat as applicable.

The ACHD Engineering Plan Review process will apply to this site. Calculations must be submitted along with a grading and erosion control plan that delineates the drainage areas for this development. The post-developed rate/volume of runoff must not exceed the pre-developed rate/volume of runoff for the 10-year critical design storm. Contact Michelle Pritchard, Engineer II, via phone at 763.324.3162 or via email at Michelle. Pritchard@co.anoka.mn.us for further information and to coordinate the ACHD Engineering Plan Review Process. Please submit the drainage calculations, grading and erosion control plans, right and left turn lane construction plans, ACHD Design Requirements Checklist for County Highway Modifications (copy available via our website), and the applicable engineering plan review fee (estimated at \$1,500.00) to Ms. Pritchard for her review and approval.

Following completion of the ACHD Engineering Plan Review Process outlined above, the contractor(s) who will be completing any work within the county right of way must begin the ACHD Permit process. Two Permits for Work within the County Right of Way (\$150.00 each) and two Street Access permits (\$250.00 each) must be obtained prior to the commencement of any construction. License permit bonding, methods of construction, design details, work zone traffic control, restoration requirements and follow-up inspections are typical elements of the permitting process. Contact Sue Burgmeier via phone at 763.324.3142 or via email at Susan.Burgmeier@co.anoka.mn.us for further information and to coordinate the ACHD Permit process.

Thank you for the opportunity to comment. Feel free to contact me if you have any questions regarding this review.

Sincerely,

Logan Keehr

Traffic Engineering Technician

John Pr

xc: CR61/Plats+Developments/2020
Jerry Auge, Assistant County Engineer
Jane Rose, Traffic Engineering Manager
Michelle Pritchard, Engineer II
Chuck Gitzen, County Surveyor
Sean Thiel, Graduate Engineer
Sue Burgmeler, Traffic Engineering Technician



Jennifer Bohr City of Ham Lake 15544 Central Ave. NE Ham Lake, MN 55304

April 20, 2021

RE: UPDATE - Preliminary Plat - Evergreen Estates

Dear Jennifer,

We have reviewed the preliminary plat for Evergreen Estates, to be located north of CR 61 (153rd Avenue NE) and west of CR 61 (Xylite Street NE) within the City of Ham Lake, and I offer the following comments:

Our comments from the letter dated December 7, 2020 still apply. Since a Radisson Road NE connection isn't feasible, a RI/RO at Quamba Street will be required as an EB left turn lane would not be feasible so close to Radisson Road NE. It can be anticipated that a WB right turn lane would then be required at Quamba Street. It can also be anticipated that Urbank Street NE will require an EB CR 61 left turn lane and a WB CR 61 right turn lane along with 154th Lane NE requiring a NB CR 61 left turn lane and a SB CR 61 right turn lane in conjunction with this development, and the exact turn lane requirements and design details for construction will be determined through the ACHD Engineering Plan Review process.

The ACHD Engineering Plan Review process will apply to this site. Construction plans for the right turn lane at Quamba Street, right and left turn lanes at Urbank Street NE, right and left turn lanes at 154th Lane NE, and drainage calculations must be submitted, along with a grading and erosion control plan that delineates the drainage areas for this development. The post-developed rate/volume of runoff must not exceed the predeveloped rate/volume of runoff for the 10-year critical design storm. Contact Michelle Pritchard, Engineer II, via phone at 763.324.3162 or via email at Michelle. Pritchard@co.anoka.mn.us for further information and to coordinate the ACHD Engineering Plan Review Process. Please submit the drainage calculations, grading and erosion control plans, ACHD Design Requirements Checklist for County Highway Modifications (copy available via our website), turn lane construction plans and the applicable ACHD Engineering Plan Review fee (estimated at \$1250.00) to Ms. Pritchard for her review and approval.

Following the completion of the ACHD Engineering Plan Review process outlined above, the contractor(s) who will be completing any work within the county right of way must begin the ACHD Permit process. Two Permits for Work within the County Right of Way (150.00 each) and three Street Access permits (250.00 each) must be obtained prior to the commencement of any construction. License permit bonding, methods of construction, design details, work zone traffic control, restoration requirements and follow-up inspections are typical elements of the permitting process. Contact Sue Burgmeier via phone at 763.324.3142 or via email at Susan.Burgmeier@co.anoka.mn.us for further information and to coordinate the ACHD Permit process.

Thank you for the opportunity to comment. Feel free to contact me if you have any questions regarding this review.

Sincerely,

Logan Keehr

Traffic Engineering Technician

xc: CR 61/Plats+Developments/2021
Jerry Auge, Assistant County Engineer
Jane Rose, Traffic Engineering Manager
Michelle Pritchard, Engineer II
Chuck Gitzen, County Surveyor
Sean Thiel, Graduate Engineer
Sue Burgmeler, Traffic Engineering Technician

Tom Collins

From:

Logan J. Keehr < Logan. Keehr@co.anoka.mn.us>

Sent:

Tuesday, April 20, 2021 10:26 AM

To:

Tom Collins

Subject:

RE: Evergreen Estates

Yes we are okay with them.

Logan

----Original Message----

From: Tom Collins < TCollins@rfcengineering.com>

Sent: Tuesday, April 20, 2021 10:23 AM

To: Logan J. Keehr < Logan. Keehr @co.anoka.mn.us>

Subject: RE: Evergreen Estates

The December letter had concerns with the 4 proposed driveways to CR60. This letter states that those comments still apply. So are the 4 driveways okay with the County?

----Original Message----

From: Logan J. Keehr < Logan. Keehr @co.anoka.mn.us>

Sent: Tuesday, April 20, 2021 10:11 AM

To: Tom Collins < TCollins@rfcengineering.com>

Subject: RE: Evergreen Estates

Here is a PDF of the letter.

Logan

----Original Message----

From: Tom Collins <TCollins@rfcengineering.com>

Sent: Tuesday, April 20, 2021 10:10 AM

To: Logan J. Keehr < Logan. Keehr @co.anoka.mn.us>

Subject: RE: Evergreen Estates

Can I get a pdf? I am preparing my recommendation memo for preliminary plat approval, and would like to include.

----Original Message----

From: Logan J. Keehr < Logan. Keehr @co.anoka.mn.us>

Sent: Tuesday, April 20, 2021 10:06 AM

To: Tom Collins < TCollins@rfcengineering.com>

Subject: RE: Evergreen Estates

Hi Tom,

I just sent out an updated letter. That should cover everything in the plat.

Logan

----Original Message----

From: Tom Collins < TCollins@rfcengineering.com>

Sent: Thursday, April 15, 2021 6:48 AM

To: Logan J. Keehr < Logan. Keehr @co.anoka.mn.us>

Subject: RE: Evergreen Estates

Hi Logan,

What is the status of review of the Evergreen Estates project with the Highway Department?

Has the County approved the street connections to CR 61? Has the developer shown that the extension of Radisson Road to within the plat is not feasible? If so, is the County still requiring that Quamba Street be a RI/RO?

The plans show that the proposed driveways for the lots that have direct access to CR 61 (Lots 1, 2, 9 and 10 of Block 5) is directly adjacent to the 10-foot drainage and utility easement. Based on the email below, my interpretation is that the County is okay with that. The plat does propose a total driveway opening of 50-feet for each driveway. The maximum driveway width is 30 feet, so with the 10-foot drainage and utility easement the County could require that the opening be reduced to 40-feet for each driveway.

Tom

----Original Message----

From: Logan J. Keehr < Logan. Keehr @co.anoka.mn.us>

Sent: Tuesday, December 29, 2020 10:46 AM To: Tom Collins < TCollins@rfcengineering.com >

Subject: RE: Evergreen Estates

Hi Tom,

I just heard back from Joe and this is what he said:

It is our recommendation and preference to not have any additional residential access points on to the county roadways. However, if the city is going to approve the plat as shown then the driveways should be arranged so they are located along adjoining lot lines.

Let me know if you have any other questions.

Logan

----Original Message----

From: Tom Collins < TCollins@rfcengineering.com>

Sent: Tuesday, December 29, 2020 9:28 AM

To: Logan J. Keehr < Logan. Keehr @co.anoka.mn.us>

Subject: RE: Evergreen Estates

Thanks Logan. The sooner the better. I understand that the preliminary plat and calculations will be submitted to the City and the Coon Creek Watershed District tomorrow.

----Original Message----

From: Logan J. Keehr < Logan. Keehr @co.anoka.mn.us>

Sent: Monday, December 28, 2020 9:23 AM To: Tom Collins < TCollins@rfcengineering.com>

Subject: RE: Evergreen Estates

Hi Tom,

I am still waiting to hear back on this. I sent out an email last Monday and have not heard back yet. I will let you know as soon as I find out.

Logan

----Original Message----

From: Tom Collins < TCollins@rfcengineering.com>

Sent: Monday, December 21, 2020 1:28 PM

To: Logan J. Keehr <Logan.Keehr@co.anoka.mn.us>

Subject: Evergreen Estates

****EXTERNAL EMAIL ALERT****

This email originated from outside the Anoka County email system. Use caution when clicking hyperlinks, downloading pictures or opening attachments.

****EXTERNAL EMAIL ALERT****

Logan,

So the County will allow the 4 proposed driveways onto both 153rd Avenue and Xylite Street?

Tom

NOTICE: Unless restricted by law, email correspondence to and from Anoka County government offices may be public data subject to the Minnesota Data Practices Act and/or may be disclosed to third parties.

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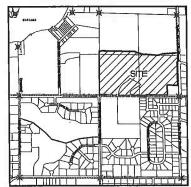
NOTICE: Unless restricted by law, email correspondence to and from Anoka County government offices may be public data subject to the Minnesota Data Practices Act and/or may be disclosed to third parties.

TITLE SHEET

~of~ EVERGREEN ESTATES ~for~ TIMBER VALLEY DEVELOPMENT 620 CIVIC HEIGHTS DR # 100 CIRCLE PINES, MN 55014 (763) 780-9090

VICINITY MAP

PART OF SEC. 2l, TWP. 32, RNG. 23



ANOKA COUNTY, MINNESOTA

SHEET INDEX

T1 TITLE SHEET
2 PRELIMINARY PLAT
3-6 GRADING PLAN
7-10 LIVABILITY PLAN
11-12 LIVABILITY CHART



PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDE THE LAWS OF THE STATE OF MINNESOTA.

CHARLES W. PLOWE

DATE: 04.20.2021 LIC. NO. 18227

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

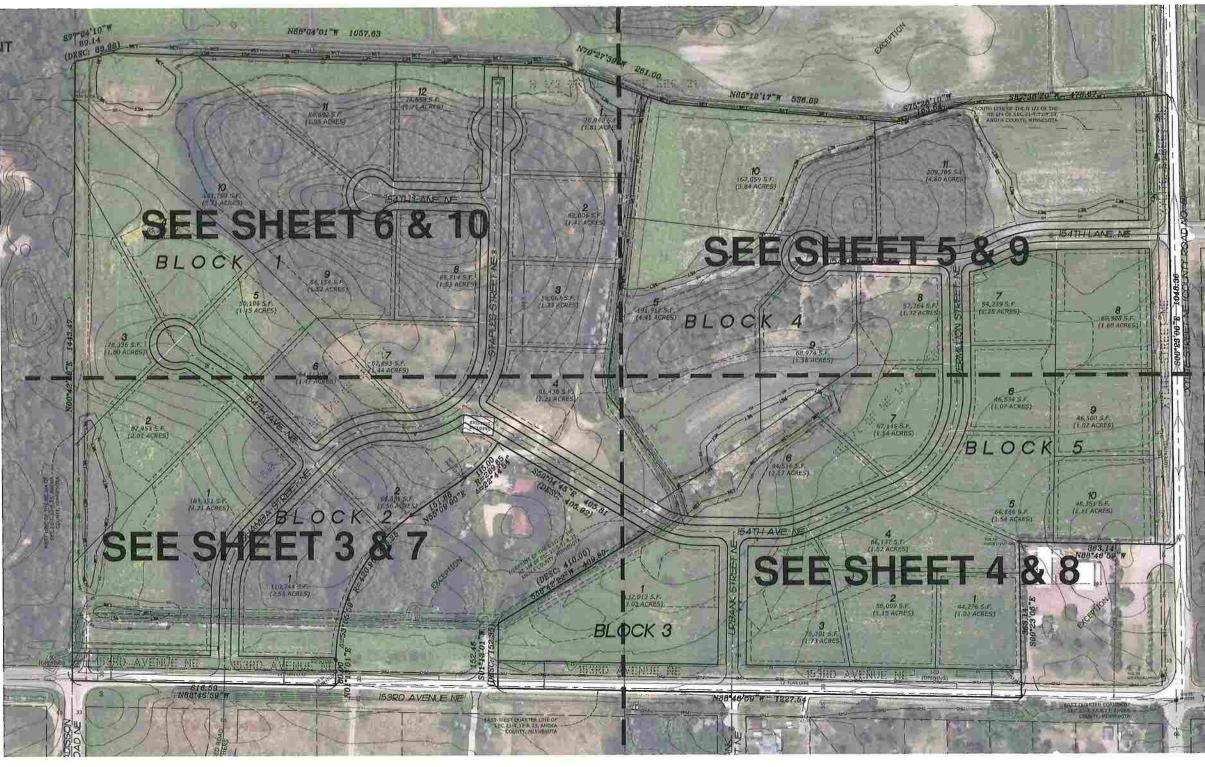
JASON E. NUD

Date: 04/20/2021 License No. 41578

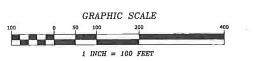
E.G. RUD & SONS, INC.

prud.com Fax (651) 361-8701

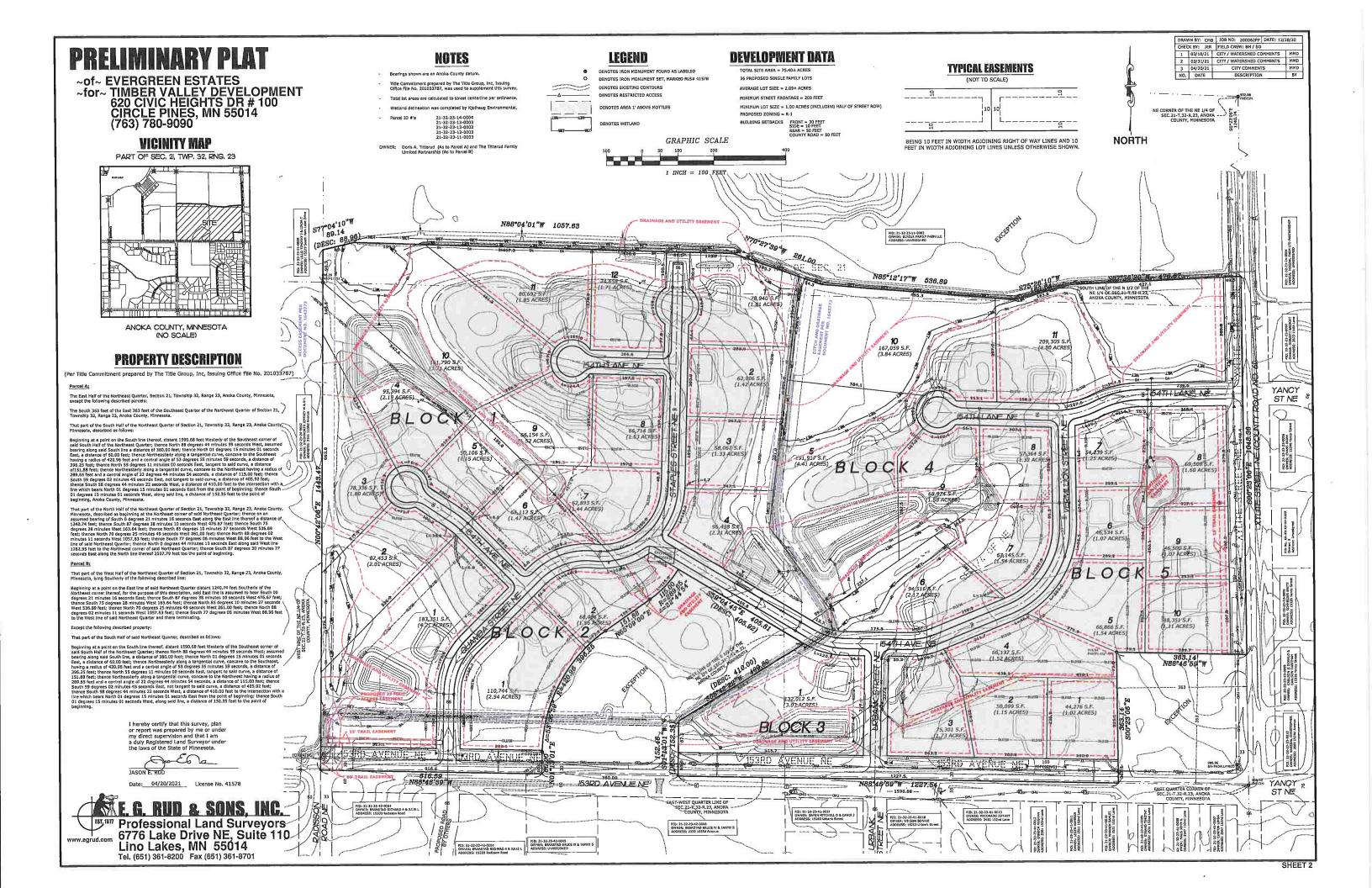
St. 1977 Professional Land Surveyors 6776 Lake Drive NE, Suite 110 Lino Lakes, MN 55014
Tel. (651) 361-8200 Fax (651) 361-8701

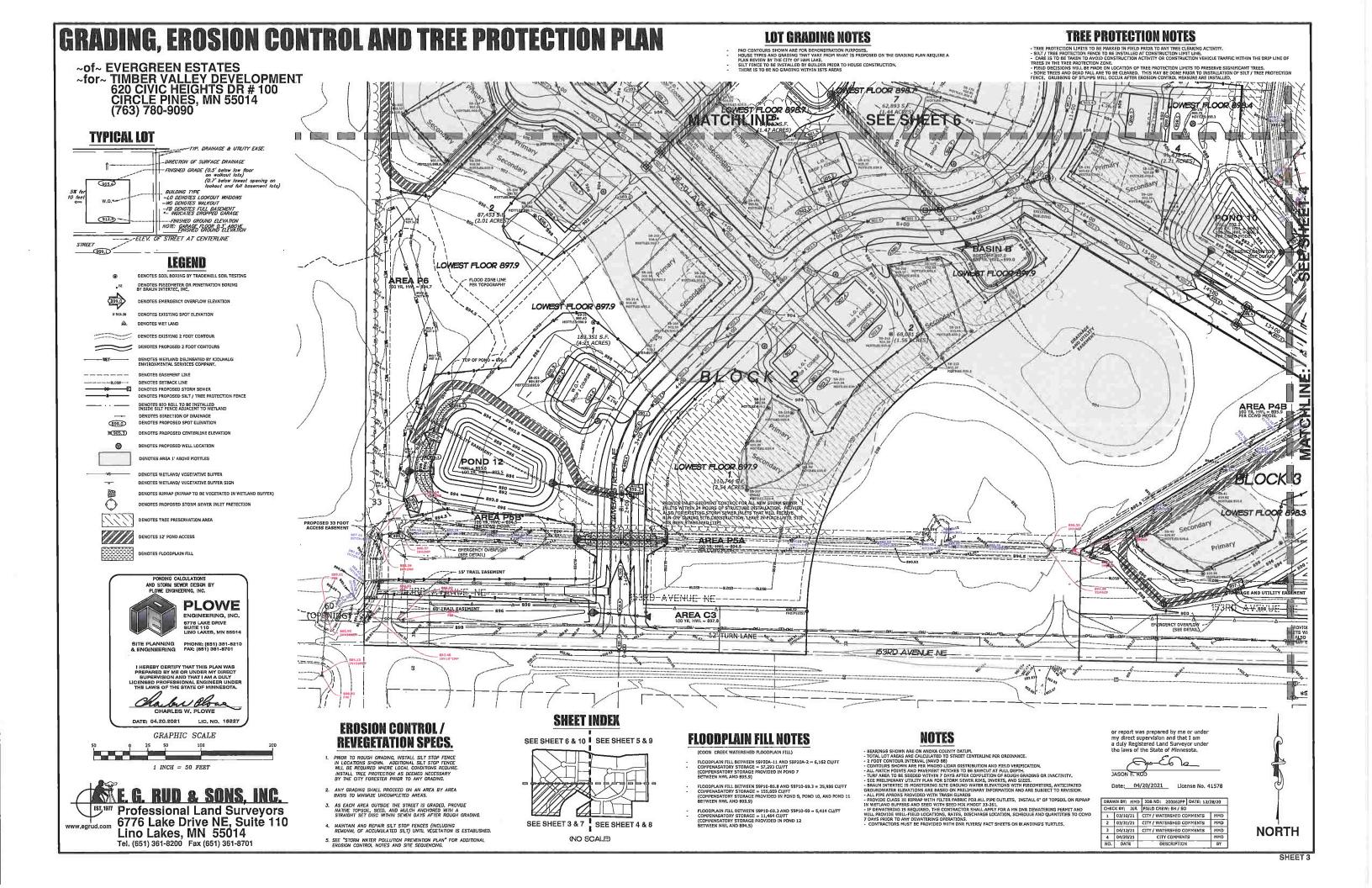


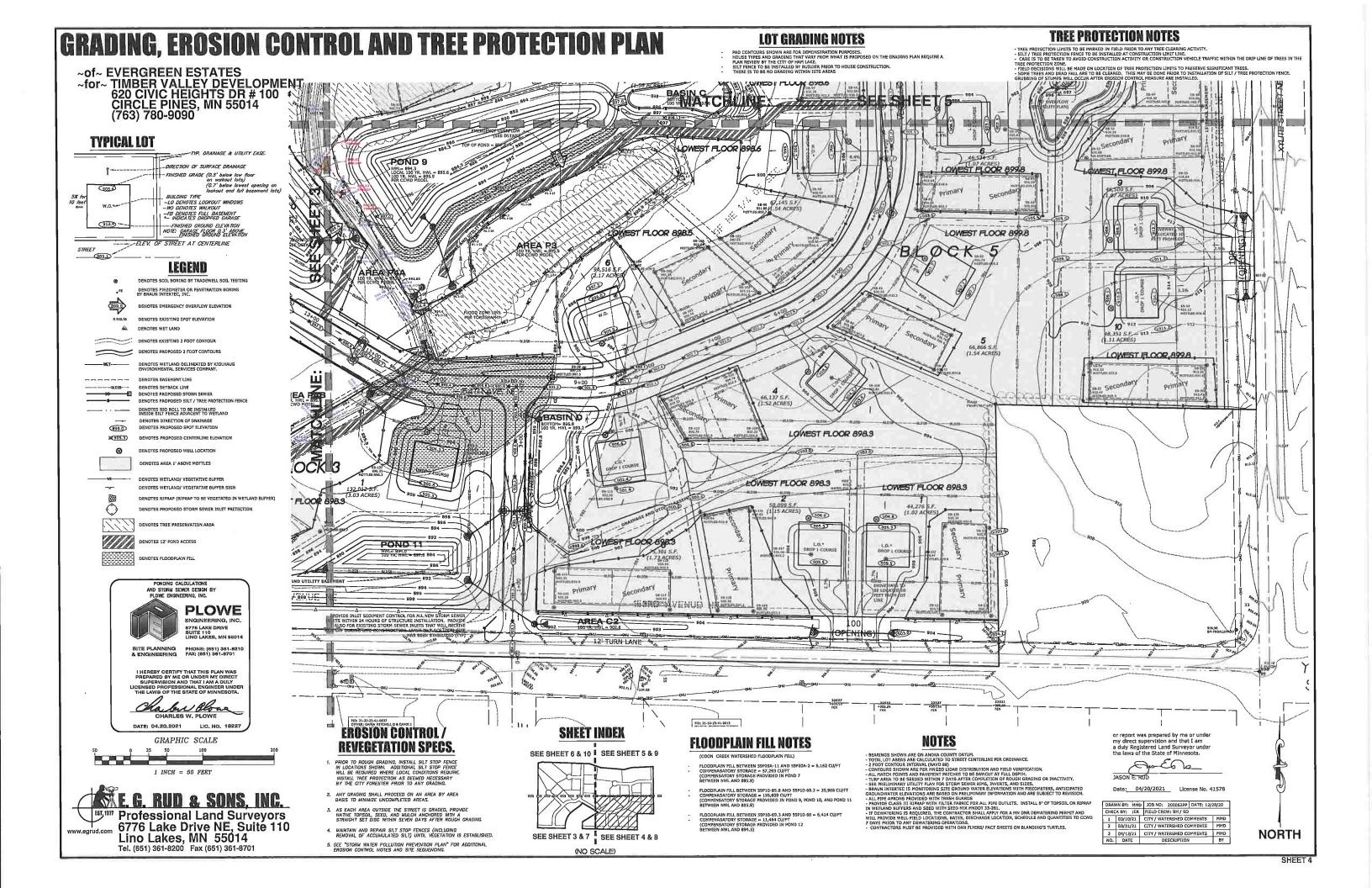


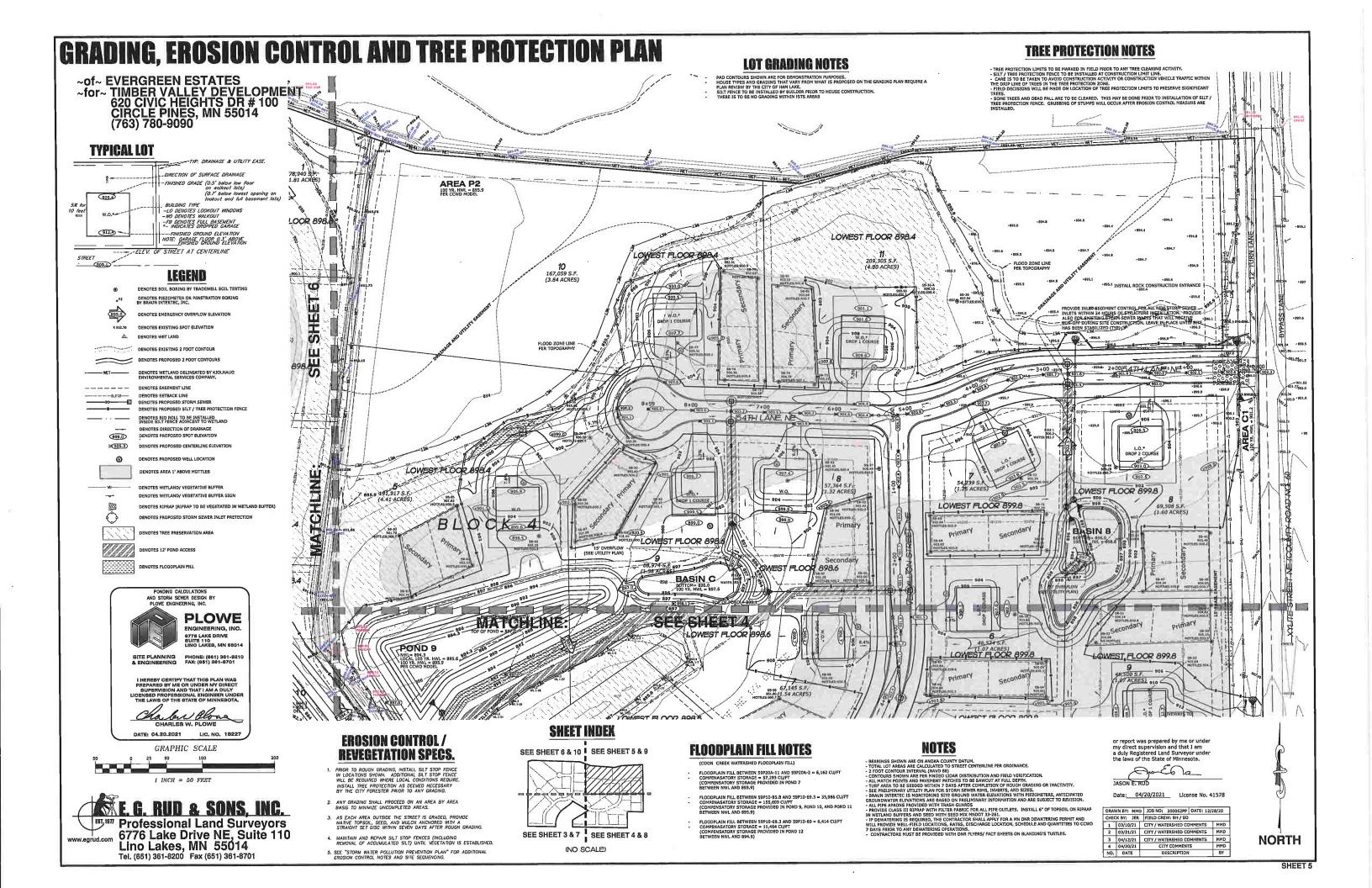


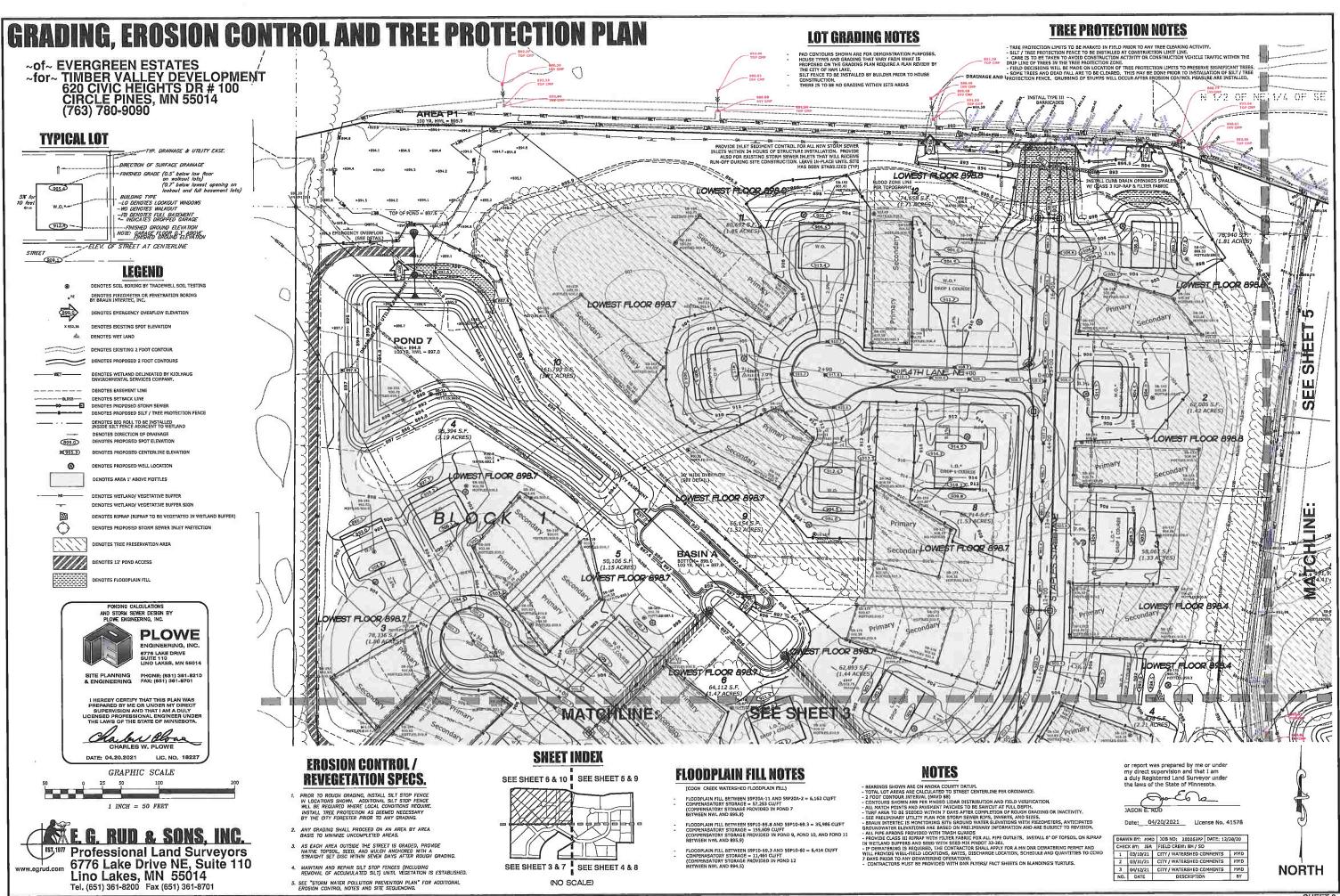
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2	03/31/21	CITY / WATERSHED COMMENTS	MMD
3	04/20/21	CITY COMMENTS	MMD
NO.	DATE	DESCRIPTION	BY

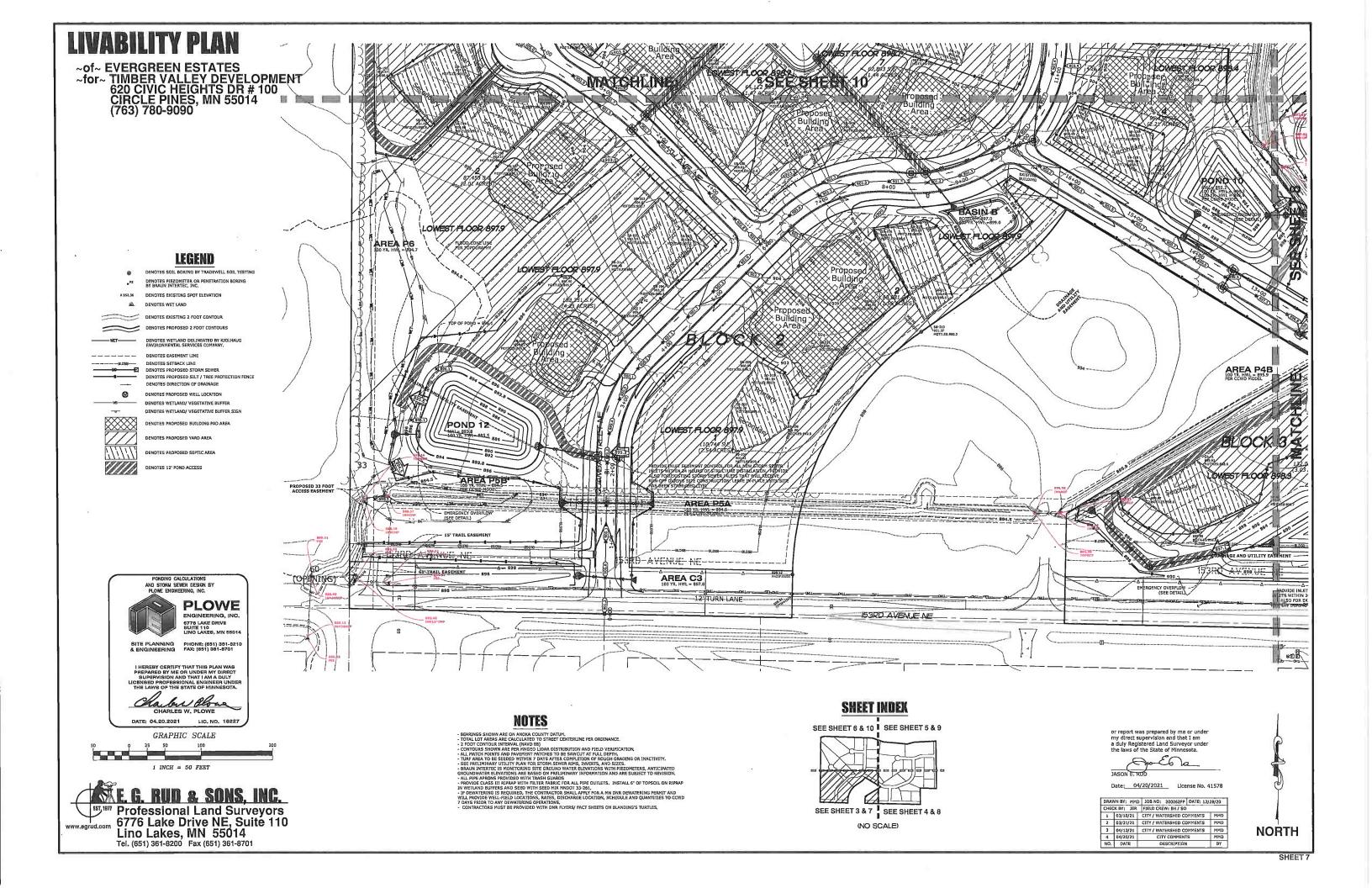


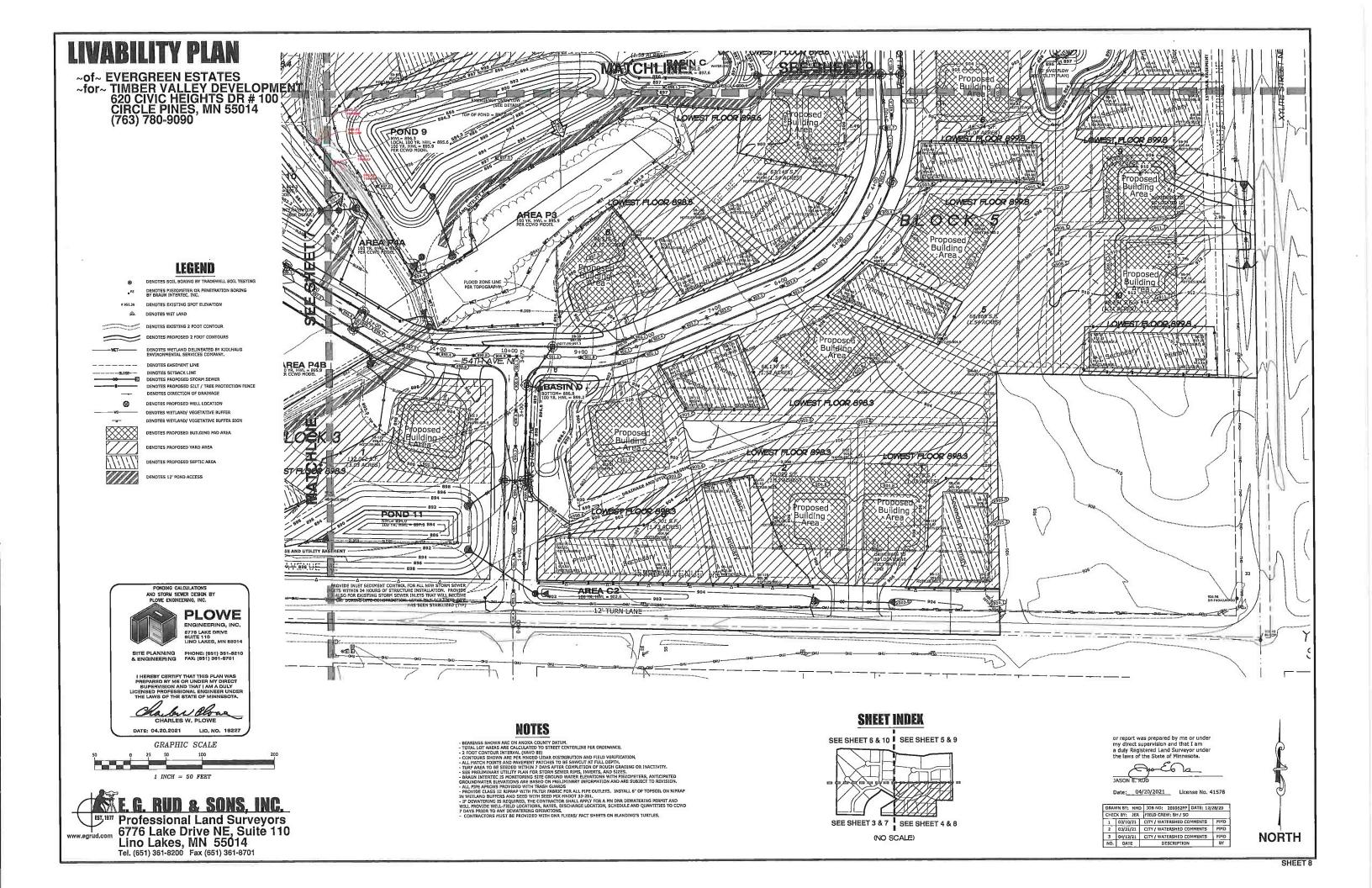


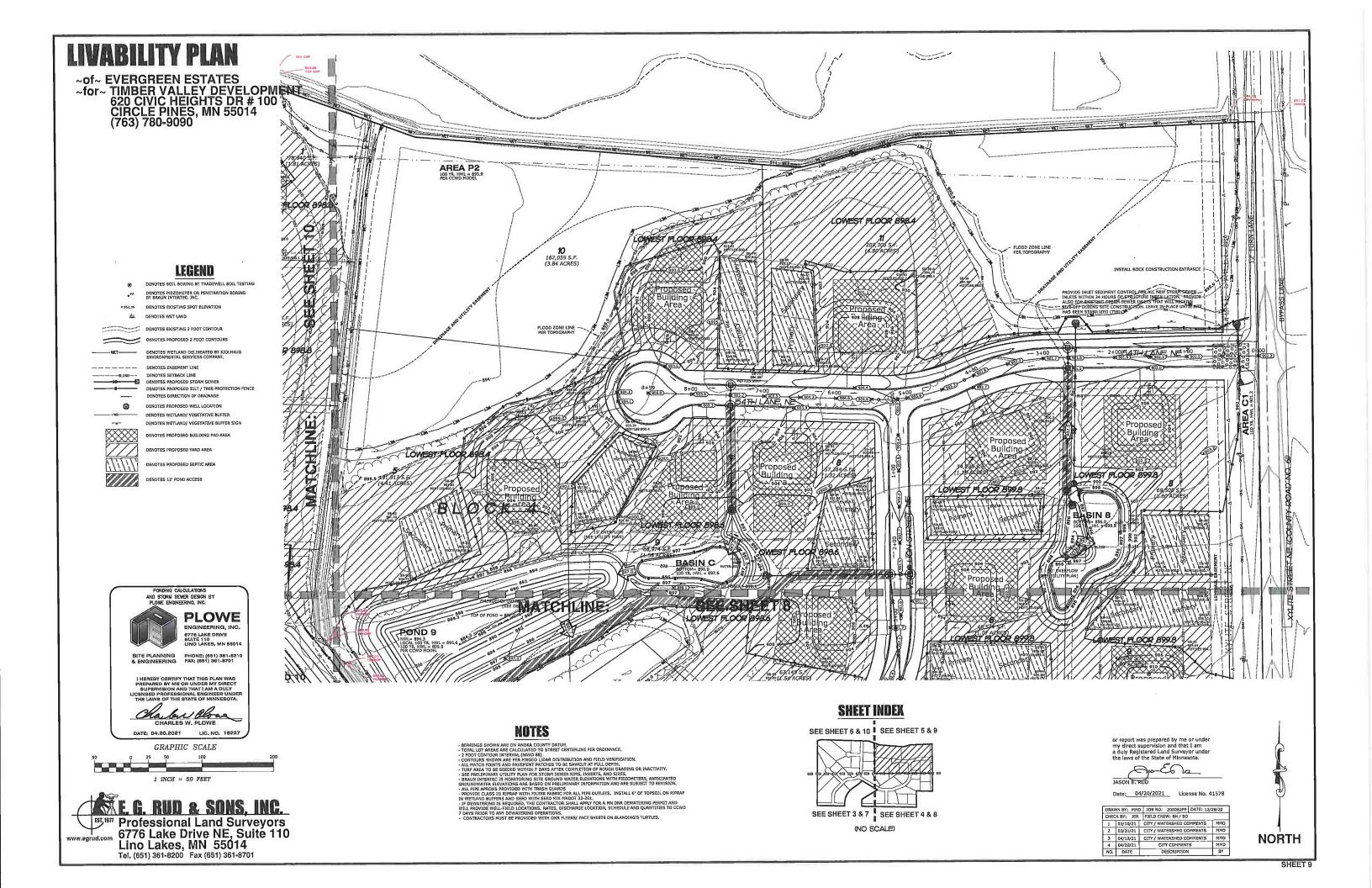


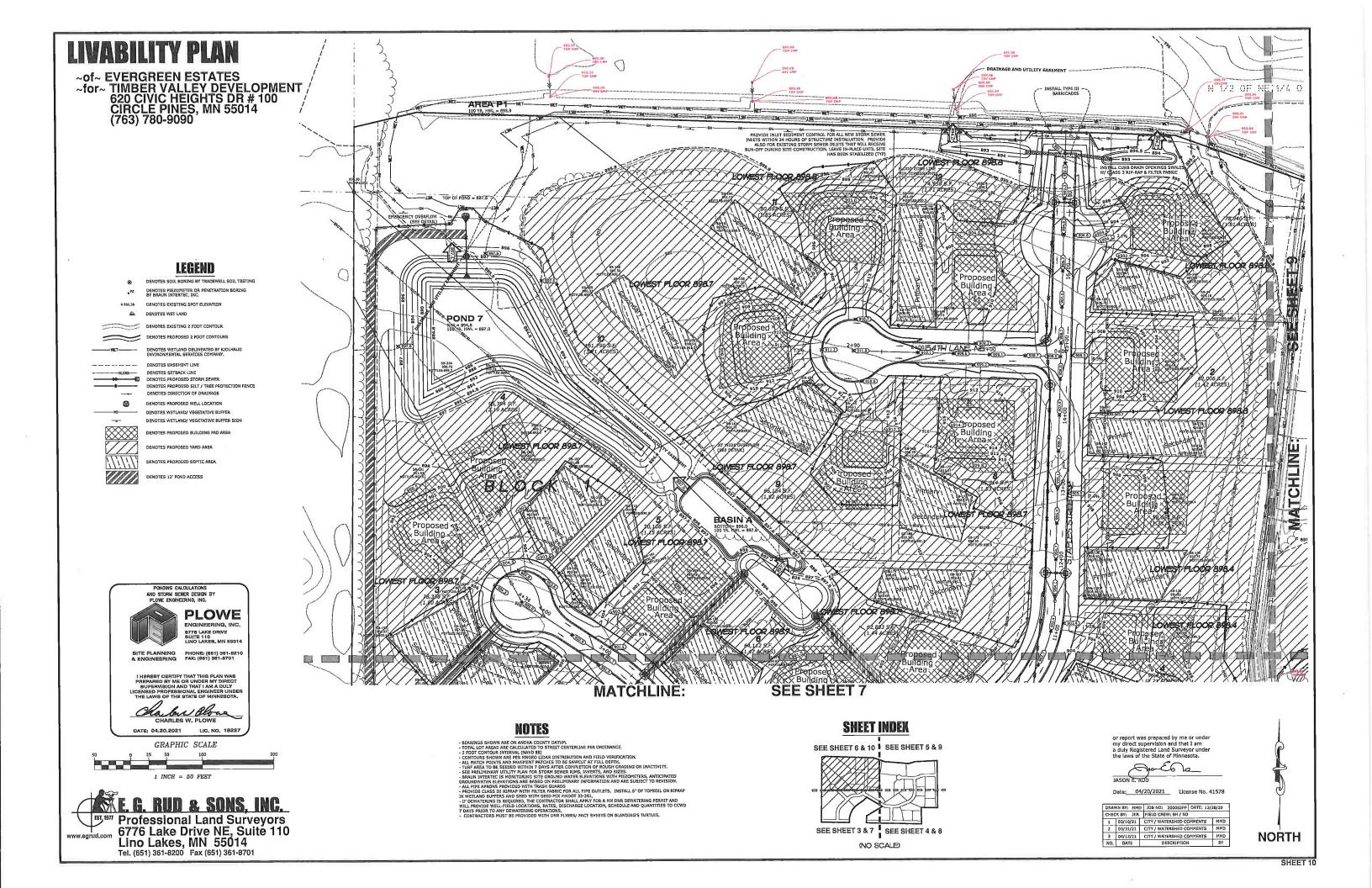












LIVABILITY PLAN

~of~ EVERGREEN ESTATES ~for~ TIMBER VALLEY DEVELOPMENT 620 CIVIC HEIGHTS DR # 100 CIRCLE PINES, MN 55014 (763) 780-9090

must be present.

A, ISTS Area Each lot must contain at least 7,500 square feet of contigueus area which is reserved for both the ISTS originally constructed and a future ISTS. The ISTS Area need not be configuous to the Bigglie building Area or the Yard Area, but the entire ISTS Area must exist at an elevation at least one flow of the ISTS Area must exist at an elevation at least one flow of the ISTS Area must exist at an elevation of the ISTS Area may be interested in the ISTS Area may be interested in the ISTS Area may be interegular in shape, provided they do not encroach into areas reserved by easement or otherwise for roadway, drainage or utility purposes, and provided that all of the area can be reasonably used for ISTS construction without the need for variances.

8. Eligible Building Area Each lot shall contain at least 10,000 square feet of contiguous land which lies at an elevation at least four feet above Unsuitable Soils. The Eligible Building Area may not be Irregular in shape, and should be generally rectangular or ovoid, with no panhandles, narrow necks or peninsulas. Eligible Building Areas may not encroach into any areas reserved by easement or otherwise for roadway, delinage or utility purposes. Pill may be used to create Eligible Building Area.

C. Yard Area Each lot shall contain at least 12,000 contiguous square feet which:

() Lies above the 100 year flood contour, and

() Lies at least one foot above soils unsutable for the intended usage of
the Yard area, and

(ii) Is contigues to lie of the Eligible Building Area for a distance of at least

(iii) Is contigues to lineal patients or the filiple Building Area.

Yard Areas may encoach into the dedicated easement area which lies at a distance of
ten feet from the perfinder of the filiple Building Area for a distance of
ten feet from the perfinder of the fits, and may encroach into area reserved by
easement or otherwise for other public utility purposes, but may not encroach into any
other area reserved by decited on or otherwise for road or drainage purposes, any may
not encroach into any areas within the 100 year flood contour or into designated
weldands. Yard Areas may be inregular in shape except within thery feet of the
locations the Yard Areas shall be a logical extension or expansion of the generally
rectinguish or or void shape of the Eligible Building Area. Fill may be used to create
Yard Area.

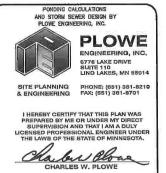
D. Building Pad Areas The enthre Building Pad must lie within the Eligible

D. Building Pad Areas The entire Building Pad must lie within the Eligible Building Area, and shall meet the separation requirements for the Eligible Building Area,

E, Low Floor Elevations

I for walkout designs, the low floor elevation shall be at least one foot above the 100 year flood contour, but, notwithstanding the 100 year flood contour, but, notwithstanding the 100 year flood contour, not less than one floot above unsuitable soils, as determined by the City's engineer.

I) For other designs, the low floor elevation shall be at least one foot above the 100 year flood contour, but, notwithstanding the 100 year flood contour, not less than one foot above unsuitable soils, as determined by the City's engineer.



DATE: 04.20,2021 LIC, NO. 18227

E.G. RUD & SONS, INC. Professional Land Surveyors www.egrud.com 6776 Lake Drive NE, Suite 110 Lino Lakes, MN 55014 Tel. (651) 361-8200 Fax (651) 361-8701

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Lot	Block	Total Lot Area (sq. fl.)	Yard Area (sq. fl.)	Septic Area (sq. ft) (sq. ft.)	Bulkling Pad Area (sq. ft.)	Proposed Building Pad 4 Above Unsuitable (sq. ft.)	Garage Floor Elevation	Floor Elev,	Opening	Elevation	Elevation	Factor		Elevation	Elevation	Type	Grac
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													199	900.90	899.9		Ε,
3	1	78,336	28,273	7,635	12.217	5,896	907.2	899.5	899.5	898.7	894.7 PEZ8	anticipated water	191	901.63	900.5	W.O.	1
	_					-						level	193	907.19	903.9		
													104	907.64	903.0		
		95,395		7.007	10.062	3,168	906.4	898.7	658.7	898.7	694.7	anticipated	33	901.00 899.53	899,8	W.O.	- N
4	1	95,395	24,424	7,837	10.002	3,100	3/0.4	000,7	Care.y	030.1	PEZS	water	33-A	900.70	699.7		上
												level	PIEZ 6	900.20	892.2(W) 900.4		1
								-	-				188	902.48	900.2	-	+
_										1			189	901.58	500.1		
													190	901.68	900.0		1
						4,099	905.5	899.2	899.2	898.7	891.7	anticipated	218 32	901.01	0.000	W.O.*	N
5	_!_	50,106	17,711	7,603	10.073	4,099	MD.D.	089.2	033.2	050.7	PEZB	water	183	898.78	097.5	DROP	
												level	184	900.30	899 1	2 COURSE	1
	5	17-			- 1					-			165	905.54	901.4 899.9		+
- 17		_											219	900.73	899.7		
6	1	64,112	24,532	9,107	10,029	4,802	905.5	899.5	902.7	898.7	694,7	anticipated	178	900.37	899.9	LO.*	N
		-	2								PIEZ8	water level	179	899.87 906.91	898.9 002.6	DROP 1 COURS	
			\vdash									,510	181	903.51	900.5		1
			6				P4	1	-		Name of the last		182	900.00	8.860	101	1
7	1	62,893	29,039	7,576	10,119	4,064	907.0	900.0	903.2	898.7	194.7 PEZ8	anticipated water	173	903.41	900.7 899.7	DROP	1
			-	- 1							F162.0	level	175	902.58	900.6	1 COURS	E
											2.		175	902.85	900.4	1	T
					(GE			-	200	000.4	- 6017	anticipated	177	902.81	900.5	L.O.*	I
8	- 1	66,714	32,620	7,930	10.001	10,091	914.8	907.8	911.0	898.7	894.7 PEZ 8	water	168	908.59		DROP	+
								-	-			fevel	170	915.07	NONE	I COURS	E
			1 2 3					0					171	908.13			1
				7.500	10.070	5.400	040.7	006.0	905.0	898.7	894.7	anticlpated	172	904.35	899.5 899.8	W.O.	N
9	1_	66,154	35,210	7,536	10,073	5,492	912.7	905.0	900.0	080.7	PIEZ8	water	164	913.32	909.3	11.0.	+
												level	165	914.11	909.9		
													166	903.36		-	+
		101 700	00.755	0.040	10.620	9,540	916.0	909.0	509.0	898.7	894.7	anticipated	158	907.23		W.O.*	1
10	1	161,790	69,730	8,218	10.020	9,040	310.0	500.0	200.0	000,1	PEZS	water	150	902.50	900.2	DROP	
												level	160	900.33		1 COURS	E
													102	906.57			+
11	- 1	80,692	33,567	8,033	10.360	8,426	913.7	906,0	906.0	898.8	894.8	anticipated	153	901.43	899.8	W.O.	I
											PEZ0	water	154	902.73		1	-
								-	-	-		level	155	903,76		+	+
			- 3						_4_,_				157	906.80	903.5		
12	1	74,658	25,620	8,117	10,291	7,292	912.0	905.0	905.0	898,8	894.6	anticipated	146	904.75			- 1
						1	-	-	-		PEZS	water level	150	909.73			E
_													151	904.80			
													152	903.49			+
	2	110,744	50,649	7,519	10,128	5,261	907.5	900.5	903.7	897.9	893.9	anticipated	PIEZ 9	901.00			+
1	2	110,744	au test	7,018	10,120	3,201	541.0	200.0		1	PEZ7	water	207	900.52	899.4	DROP	
	- 3											level	208	900.39			E .
		-						-	-	-			209	900.54			+
				-									211	902.94	900 G		1
2	2	68,081	25,698	7,695	10,129	5,333	907.7	900.7	903.9	897.9	693.9	anticipated	212	904.30	AXX 4	nnon	
				-			-	_		-	PEZ7	level	213	900,48	899.5	1 COURS	E
	1	-	- 3 - 3				1			20			215	899.69	890.6		
									-				216	899.57			1
1	3	132,012	30,710	8,280	10,000	7,250	904.6	898.3	001.5	898.3	894.3 PEZ3	anticipated water	PEZ 3	899.97			
		1					1	 			1 11,0,0	level	41	899.92	000,6	2 COURS	
													42	899.91			-
		-						-			+	-	127	899.99			+
1	4	78,940	20,157	7,623	11.079	4,471	909.5	898.8	890.0	898.8	894.0	anticipated	34	902.18	500.0	W.O.	Ī
		. 5,540	27,170								PEZB	water	143	901.92	000.1		1
												level	144	901.94			+
	-			-				1					146	902.84	900.3		1
				0					-				147	899.3			
2	-4	62,006	33,968	8,117	10,000	5,825	912.0	905.0	905.0	898.8	894.8 PEZ 9	anticipated water	130	903.60			
	-			H				-			F REAL W	level	140	904.3			
		-											141	908.69	903.7		1
					6		2000		Automore.		74277	Z-0-X	142	905.14			
3	4	58,067	29,600	8,327	10.562	10,500	910.0	903.0	906.2	898.4	634.4 PEZ 6	anticipated water	133	901.8			
	-	1	-	l -	-		-	1	-		1 10 10 10	level	135	904.8	900.3	1 COUR	
													136	906.5	900.5		1
					19000	724	010.0	000.7	BOD F	898.4	894.4	anticipated	137 PIEZ 0	904.8			
4	4	96,438	21,624	7,681	10.315	4,228	906.5	899.5	899.5	\$98.4	94.4 PEZ6	water	128	902.3	B 898.7		+
											0.000	level	129	902.2	8 699.6		ŝE
													130	903.8			+

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

JASON E. RUD

Date: 04/20/2021 License No. 41578

NOTES: * INDICATES DROPPED GARAGE ELEVATIONS BASED UPON 12 COURSE BASEMENT (W) INDICATES STATIC GROUNDWATER ELEVATION LOW OPENINGS LISTED ARE REFLECTING THE REAR YARD LOW OPENING

DRAV	YN BY: CMB	JOB NO: 200062PP DATE: 12/	28/20		
CHEC	K BY: JER	FIELD CREW: BH / SO			
1	03/10/21	CITY / WATERSHED COMMENTS	MMD		
2	03/31/21	CITY / WATERSHED COMMENTS	MMD		
3					
NO.	DATE	DESCRIPTION	BY		

LIVABILITY PLAN

~of~ EVERGREEN ESTATES ~for~ TIMBER VALLEY DEVELOPMENT 620 CIVIC HEIGHTS DR # 100 CIRCLE PINES, MN 55014 (763) 780-9090

Livability Standards
All residential lots shall contain at least 29,500 square feet of land which lies above the 100 year flood contour. Of this 29,500 square feet, the following additional requirements must be present.

must be present.

A. ISTS Area Each lot must contain at least 7,500 square feet of contiguous area which is reserved for both the ISTS originally constructed and a future ISTS. The ISTS Area need not be contiguous to the Biglight building Area or the Yead Area, Unsuitable Solls, and must contrain fundisturbed Solls or soils which meet the requirements of Rule 7080 of the Minnesota Pollution Control Agency for ISTS construction standards. The ISTS Area may be full time guiler in shape, provided they do not encreach into areas reserved by easement or otherwise for roadway, drainage or utility purposes, and provided that all of the area can be reasonably used for ISTS construction without the need for variances.

Be. Bilgible Building Area Bach lot shall contain at least 10,000 square feet of contiguous land which lies at an elevation at least four feet above Unsuitable Soils. The Eligible Building Area may not be irregular in shape, and should be generally rectangular or ovoid, with no panhandles, narrow necks or peninsulas. Eligible Building Areas may not encroach into any rears reserved by easement or otherwise for readway, draftnage or utility purposes. Fill may be used to create Eligible Building Area.

C. Yard Area Each jot shall contain at least 12,000 contiguous square feet which:

C. Yord Area Each lot shall contain at least 12,000 contiguous square feet which:

1) Lies above the 100 year flood contour, and

1) Lies at least one foot above soils unsuitable for the intended usage of

1) Lies at least one foot above soils unsuitable for the intended usage of

1) II) Is contiguous to the Eligible Building Area for a distance of at least

1(II) Is contiguous to the Eligible Building Area for a distance of at least

1(II) Is contiguous to the Eligible Building Area.

1/Ard Areas may encroach into the dedicated easement area which lies at a distance of

1/Areas may encroach into the building Areas of the Eligible Building Area, and

1/Areas may encroach into the building Areas, and the public will be proceed to the area reserved by

1/Areas may be contained to the contained and the area of the Areas ready be into the contained and the area of the Areas may be interpolate in shape except within thirty feet of the

1/Areas areas within the 100 year flood contour or into designated

1/Areas may are a within the 100 year flood contour or into designated

1/Areas may are a within the 100 year flood contour or into designated

1/Areas may are a within the 100 year flood contour or into designated

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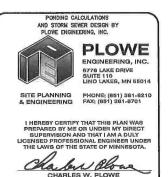
1/Areas may be used to create

D. Building Pad Areas The entire Building Pad must lie within the Eligible Building Area, and shall meet the separation requirements for the Eligible Building Area.

E, Low Floor Elevations

In Forum cleavagins, the low floor elevation shall be at least one foot above the 500 year flood contour, but, notwithstanding the 100 year flood contour, but, notwithstanding the 100 year flood contour, not least than one foot above unputable soils, as determined by the City's engineer.

I) For other designs, the low floor elevation shall be at least one foot above the 100 year flood contour, but, notwithstanding the 100 year flood contour, not not above the 500 year flood contour, but, notwithstanding the 100 year flood contour, not less than one foot above unsultable soils, as determined by the City's engineer.



DATE: 04.20.2021 LIC, NO, 18227

ĹoĬ	Block	Total Lot Area (sq. ft.)	Yard Area (eq. ft.)	Septic Area (sq. ft) (sq. ft.)	Building Pad Area (eq. ft.)	Proposed Building Pad 4' Above Unsuitable (sq. ft)	Garage Floor Elevation	Proposed Low Floor Elev.	Proposed Low Opening	Lowest Floor Elevation	Anticipated Groundwares Elévation	Low Floor Determining Factor	Boring #	Boring Elevation	Mottles Elevation	Building Type	Custom Graded
5	4	191,917	52,550	7,714	10,000	3,956	907.2	899.5	899,5	898.4	894.4	anticipated	PIEZ 5	895.60	891.9(W)	W.O.	NO
											PEZ5	water	35	895.68	895.7		
	_		-			-	-81					level	35A 82	900.50 901.70	999.5		-
								-					83	901.74	900.6		
								## #	12				84	902.10	899 fi		
												-	65	901.62	900.5		-
6	4	94,516	20,127	8,338	10,014	2,700	906.2	898.5	898.5	898.5	894,5	anticipated	39	897.25	697.0	W.O.	NO
		04,010	20,121	0,000	10,014	6,700		-			PIEZ4	water	39A	900,50	899.2	1 2 2 2	- 1
												ievel	102	905.11	901.6		
							-	_					103	900.60	699.9		
					5,		8						105	901.55	900.5		
					2 -				No.			_	105	902.04	900.9		
7	4	67,145	29,984	7,952	10,000	3,856	007.0	900.7	900.7	898.6	004.5 PEZ4	BASIN C HWL	98	902.00	900.5	W.O.*	NO
		1					-	f			FELT	HWL	100	903.06	901.4	2 COURSE	
T - E										-			101	905,26	902.2		
		F7 004	04.495	7.700	45.508	4.000	907.7	900.0	900.0	898.6	894.5	BASIN C	107 PIEZ4	901.65 698.30	900.7 892.0(W)	IMO	NO
8	4	57,364	21,195	7,722	10.229	4,263	907.7	900.0	900.0	898,6	994.5 PIEZ4	HWL	37	900.48	899.8	W.O.	NO
													93	901,42	900.4		
							200						94	901.06	899.7		
			-	-									95 96	901.42 902.66	900.0		-
	-												97	901.28	900.2		
9	- 4	68,974	16,993	7,935	10,115	2,693	907.0	900.0	900.0	898.6	894.5	BASIN C	67	901.88	900.6	W.O.*	NO
											PIEZ4	HWL	88	903.20	899.2	DROP 1 COURSE	
								-				-	90	902.20	900.4	LOOKSE	\vdash
			10				1 5 -						91	901.86	900.7		
	-6		100										92	902.97	901.1		
10	4	167,059	21,088	7,711	10,116	5,243	908.0	901.0	961.0	898.4	894.4 PEZ 5	antic:pated water	75 76	904.68	900.7	W.O.*	NO
		1		-				1			FELS	level	77	903.31	900.1	1 COURSE	
												.5101	75	902.41	900.9	1	7.5
													79	902.63	900.8		
11	4	209,305	58,513	7,761	10,000	5,109	909,1	902.1	902.1	898.4	604.4	anticipated	36 36A	897.54	896.9	W.O.*	NO
		1	-		_		-		_		PEZ5	water level	368	899,10	900.2	1 COURSI	
			1000										73	903.23	899.9		
													74	904.39	900.1		
					-		- 3- 1		13.				80 81	903.12 902.68	901.0	-	-
1	5	44,276	26,052	7,966	10,259	8,889	909.8	902.8	906.0	898.3	894.3	antic pated	122	904.97	899.8	L.O.*	NO
	-	14,270	20,002	1,000	10,200	5,555	-		-	-	PEZ2	water	123	905.50	900.5	DROP	7.00
	100											level	124	905.27	900.9	1 COURS	
		_			-		×		-		-		125 126	905.53 905.34	899.5 900.0		
2	5	50,099	25,304	7,765	10,000	10,000	90% 8	902.8	906.0	898.3	694.3	anticipated	PHIZ 2	905.50	891.8(W)	L.O.*	NO
											PEZ2	water	118	905.26	901.1	DROP	
			14.5									tevel	119	905.26	900,1	1 COURS	
		1		-									121	904.93	902.6	4	100
				The second		***							217	905.06	899.2		
3	5	75,301	29,028	8,117	10,000	5,854	906.9	899.9	903.1	898.3	894.3	anticipated	113	902,52	899.0	L,0.*	NO
		-	-						4		PEZZ	water level	114	902.35 903.20	899.9 900.2	DROP 1 COURS	
		1		1						1		16161	116	904.94		1.000110	
													117	904,92	900,6		
4	5	66,137	39,318	7,988	10,332	3,722	908.8	901.8	905.0	898.3	894.3	antic pated	108	905,81	903,6	L.O.*	NO
<u> </u>		-		+							PEZZ	water level	109	907.22	903.4	1 COURS	<u> </u>
					1		- 0						111	904.52	900.9		
			-					0		612.5	1000	D==	112	905.74	901.9		I NIO
5	5	66,868	42,524	7,898	10,000	5,622	908.0	900,3	908.4	899.8	834.3 P.E.Z.2	PER BASIN 8	59	907.43	904.8	F.B.	NO
		1								-	1.664	HWL	61	905.54	903.2	1	
													62	906.79	904.8	0	
		40.000	40.00			1 802		000 5	641.7	600.0	005.6	oro.	63	905.74		1.00	100
- 6	5	46,534	19,091	8,117	000,01	4,855	906.11	900.5	903.7	899.8	895.2 PIEZ 1	PER BASIN 8	38	903.83 905.86		L.O.*	NO:
	-		1							1	1.4.4	HWL	65	905,09	899.1		2
	8	10		<u> </u>									66	904.04	102.2		
-	1	61.000	55.101	2 040	10.540	F 447	(MAX	000 5	E03.7	200.0	#20 B	DEO	67	903.64	899 6	1-10:	NO
7	- ,	54,239	22,101	7,640	10,210	5,147	907.5	900.5	563.7	899.8	195.2 P.EZ.1	PER BASIN 8	69	903.02	900.0	DROP	NO
												HWL	70	902.96	900.5	1 COURS	
													71	902.29			
8	-	69,508	97.655	7,615	10,000	8,651	006.8	900.5	903.7	899,8	895.2	PER	PEZ 1	901.24	900.2 892.7(W		NO
- 8	- 5	800,80	24,023	7,615	10,000	8,631	900.0	800.0	903.7	0,860	PEZ1	BASIN 8	44	899,78			NU
								T			1000	HWL	45	902.81	899.8	2 COURS	E
	19.	N TOTAL											46	903.49	900.2		
	-	1							-	-	-		47	904.34			
9	5	48,500	22,510	7,820	10,000	6,879	913.0	906.0	909.7	899.8	695.2	PER	49	904.68			NO
		.0,000		1,020		1 ,,,,,,	2104	1	200.00	1	PEZ1	BASIN 8	50	905.10	902.9	DROP	
												HWL	51	904.14		1 COURS	č
	6		1	-					-	-			52	904.68 905.64			
10	- 5	48,351	22,510	8,117	10,000	7,081	914.5	907.5	910.7	899.8	834.3	PER	54	911.12			NO
				7							PEZZ	BASIN 8	- 55	913.26	911.6	DROP	
												HWL	56	913.42			3
	1	-	-		-	-	-	-	-	1			57 58	912.47			
		1											-	1 414.66	201.0		ليبيب

Highest
Anticipated
owest Floor Groundwarer

E.G. RUD & SONS, INC. Professional Land Surveyors www.egrud.com 6776 Lake Drive NE, Suite 110 Lino Lakes, MN 55014 Tel. (651) 361-8200 Fax (651) 361-8701

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

Apor El Da Date: 04/20/2021 License No. 41578 NOTES: * INDICATES DROPPED GARAGE ELEVATIONS BASED UPON 12 COURSE BASEMENT (W) INDICATES STATIC GROUNDWATER ELEVATION LOW OPENINGS LISTED ARE REFLECTING THE REAR YARD LOW OPENING

DRAY	YN BY: CMB	JOB NO: 200062PP	DATE: 12/28	/20
CHEC	K BY: JER	FIELD CREW: BH / SO		
1	03/10/21	CITY / WATERSHED CO	MMENTS	MMD
2	03/31/21	CITY / WATERSHED CO	IMMENTS	MMD
3				
NO.	DATE	DESCRIPTION		BY

VICINITY MAP



NOT TO SCALE

LEGEND

	EXISTING OVERHEAD ELECTRIC
тел	EXISTING UNDERGROUND TELEPHONE
	EXISTING UNDERGROUND CABLE
111	EXISTING TELEPHONE PEDESTAL
Œ	EXISTING ELECTRICAL PEDESTAL
62	EXISTING CABLE PEDESTAL
€O³	EXISTING UTILITY POLE
*	EXISTING LIGHT POLE
>>	EXISTING STORM SEWER
•	EXISTING STORM MANHOLE
	EXISTING CATCH BASIN
•	EXISTING FLARED-END SECTION
@	EXISTING WELL
928	EXISTING CONTOUR
x	EXISTING FENCE
	EXISTING WETLAND
> >>	PROPOSED STORM SEWER PIPE
•	PROPOSED STORM MANHOLE
	PROPOSED CATCH BASIN
Δ	PROPOSED FLARED-END SECTION
4,0%	DECROSED DIRECTION OF DRAINAGE

GENERAL NOTES

- 1. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING 1. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING
 TYPE AND LOCATION OF EXISTING UTILITIES IS NOT GUARANTEED
 TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS
 RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE
 AND LOCATION OF UTILITIES AS NECESSARY TO AVOID DAMAGE TO
 THESE UTILITIES.
 2. CALL "811" FOR EXISTING UTILITIES LOCATIONS PRIOR TO ANY
 EYCAVATIONS.
- EXCAVATIONS.

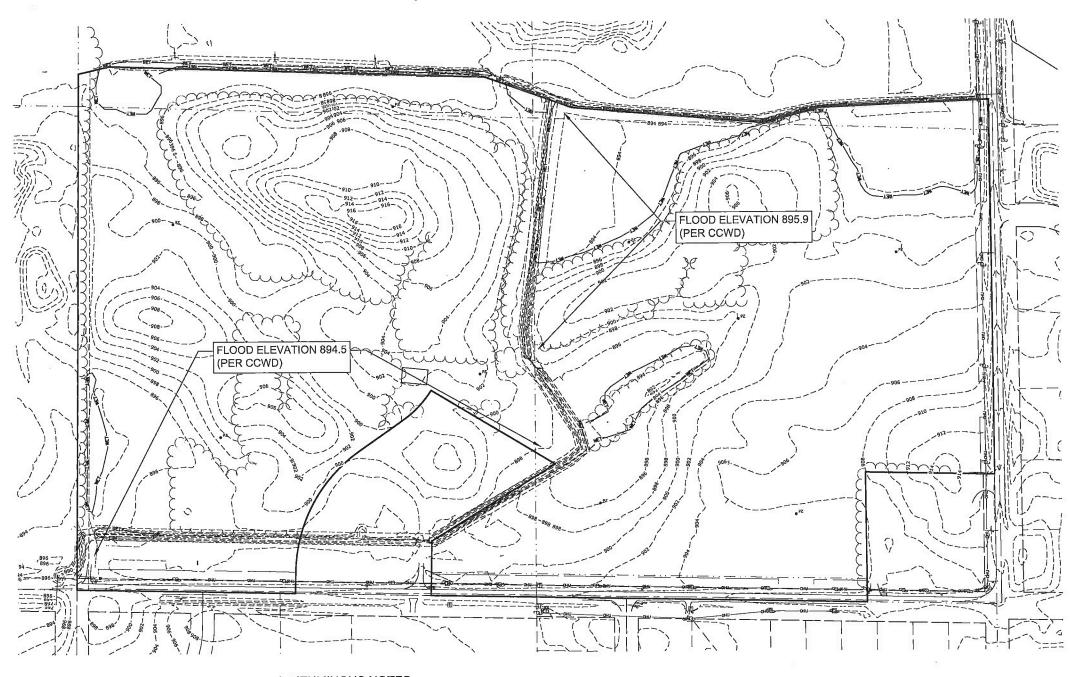
 3. THE CONTRACTOR SHALL FIELD VERIFY SIZE, ELEVATION, AND

- 3. THE CONTRACTOR SHALL FIELD VERIFY SIZE, ELEVATION, AND LOCATION OF EXISTING UTILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO THE START OF INSTALLATIONS.
 4. INSTALLATIONS SHALL CONFORM TO THE CITY STANDARD SPECIFICATIONS AND DETAIL PLATES.
 5. STORAGE OF MATERIALS OR EQUIPMENT SHALL NOT BE ALLOWED ON PUBLIC STREETS OR WITHIN PUBLIC RIGHT-OF-WAY.
 6. NOTIFY CITY AND COON CREEK WATERSHED DISTRICT (CCWD) A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- CONSTRUCTION.

 7. ALL ELECTRIC, TELEPHONE, AND GAS EXTENSIONS INCLUDING SERVICE LINES SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISCONNECTIONS SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY.

EVERGREEN ESTATES

HAM LAKE, MINNESOTA



STORM SEWER NOTES

- FIELD VERIFY SIZE, ELEVATION, AND LOCATION OF EXISTING STORM SEWER AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY INSTALLATIONS.
- (a) REINFORCED CONCRETE PIPE (RCP) ANSI C76 WITH R-4 GASKETS.
- GASKETS.

 (B) HOPE PIPE SHALL MEET THE REQUIREMENTS OF AASHTO M294, TYPE S WITH WATERTIGHT CONNECTIONS. USE SAND/GRANULAR MATERIL FOR BACKFILLING AND COMPACTION OF HOPE/PVC PIPE IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM 232.

 3. DO NOT BACKFILL CATCH BASINS UNTIL FABRIC WRAP IS INDEPTRED BY CITY.
- INSPECTED BY CITY.

 4. TRASH GUARDS ARE REQUIRED FOR ALL FLARED-END SECTIONS
- LESS THAN 48" IN DIAMETER.
 5. PROVIDE CLASS III RIP-RAP W/ FILTER FABRIC AT ALL PIPE
- PROVIDE CLASS III RIP-RAP W FILTER FABRIC AT ALL PIPE OUTLETS.
 TIE LAST THREE SECTION OF CONCRETE PIPE, INCLUDING APRON, FOR CONCRETE PIPES LESS THAN 48" IN DIAMETER.
 STORM SEWER LEWGTHS INCLUDE THE LAYING LENGTH OF THE FLARED-END SECTION. LAYING LENGTH OF FLARED-END SECTION TO BE DEDUCTED FROM PAYMENT LENGTH OF PIPE.
 ARCH PIPE JOINTS MUST BE WRAPPED WITH FABRIC OR OTHER PROTECTION TO PREVENT SEDIMENT FROM ENTERING PIPE.
 SEE SHEET C3 1-END STRIPTING SCHEPILE
- 9. SEE SHEET C3.1 FOR STRUCTURE SCHEDULE

CURB & BITUMINOUS NOTES

- REMOVAL AND DISPOSAL OF EXISTING STREET MATERIALS AS REQUIRED FOR CONSTRUCTION IS CONSIDERED INCIDENTAL. ALL MATCH POINTS AND PAVEMENT PATCHES TO BE SAW-CUT AT
- PULL DEPTH.
 RESTORE DISTURBED STREET TO EXISTING OR BETTER SECTION.
 BACKFILLING OF CURB IS INCIDENTAL TO CURB INSTALLATION.

SHEET INDEX

TITLE SHEET, EXISTING CONDITIONS & GENERAL NOTES

C2.1 - 2.4 UTILITY PLAN

C3.1 - 3.3 DETAILS

C4.1 - 4.2 STORM WATER POLLUTION PREVENTION PLAN

PLOWE

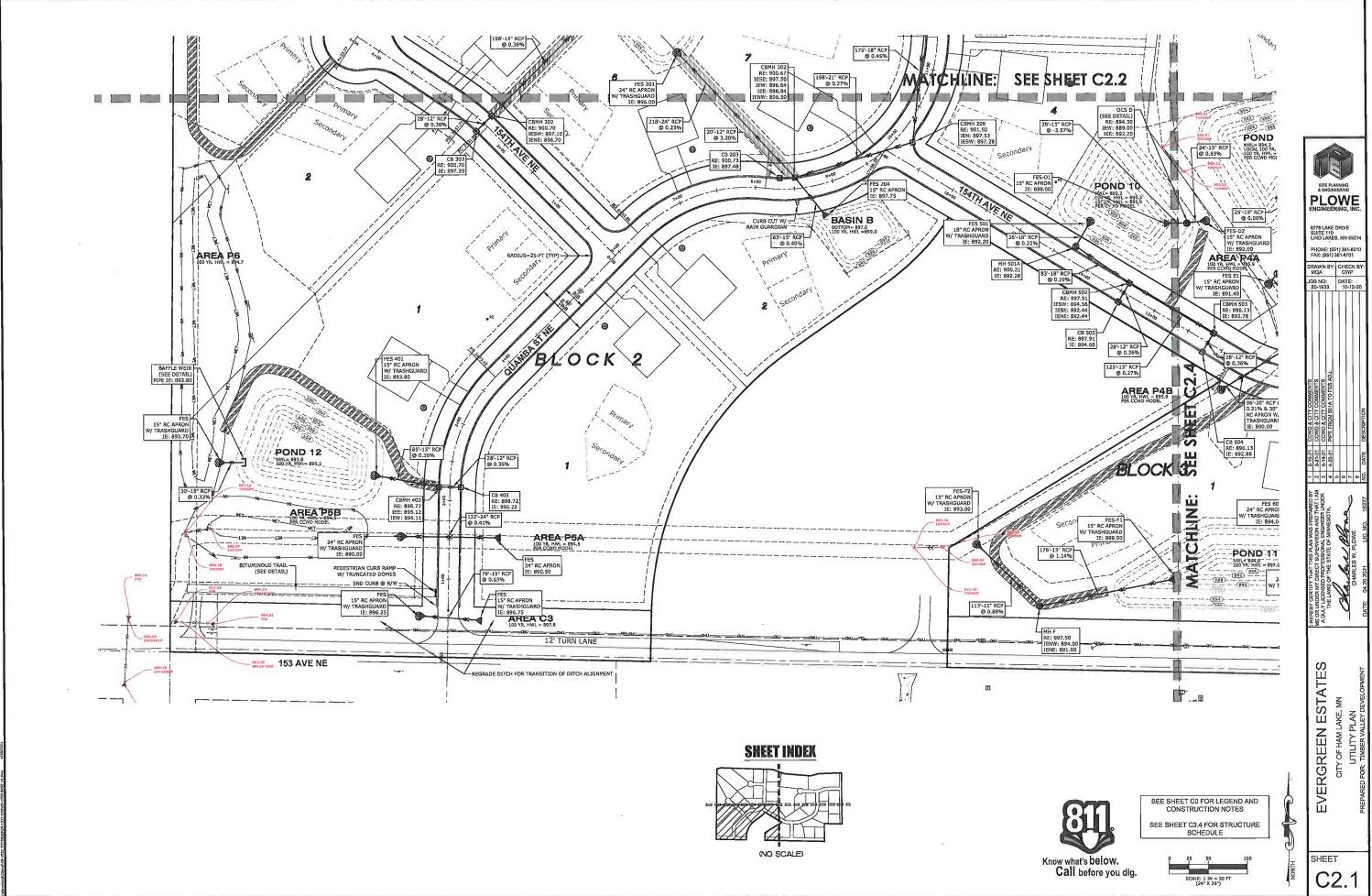
EVERGREEN ESTATES

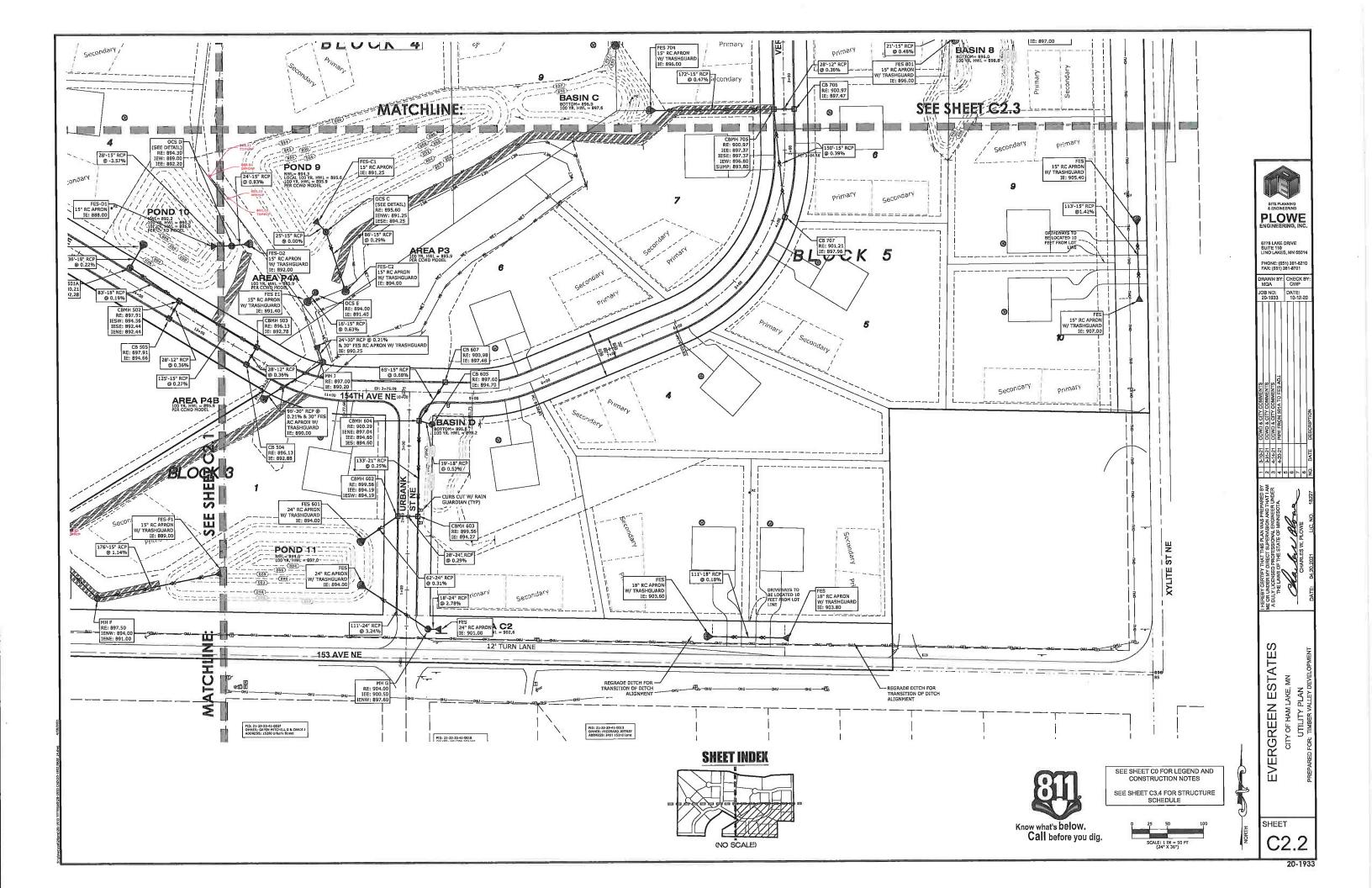
CITY OF HAM LAKE, MN

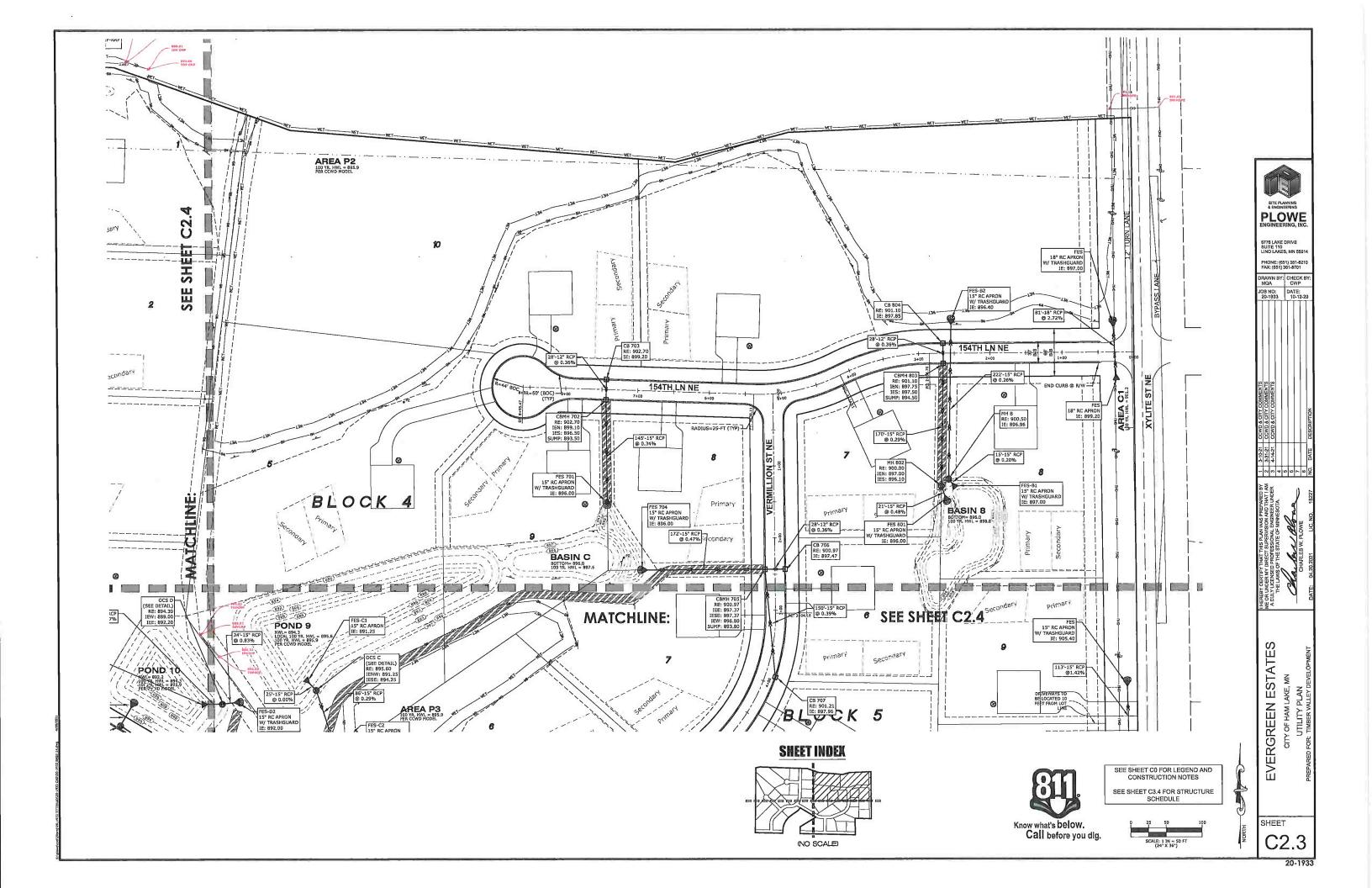
LE SHEET, EXIST, CONDITIONS & GEN. NOT
PREPARED FOR: TIMBER VALLEY DEVELORMENT

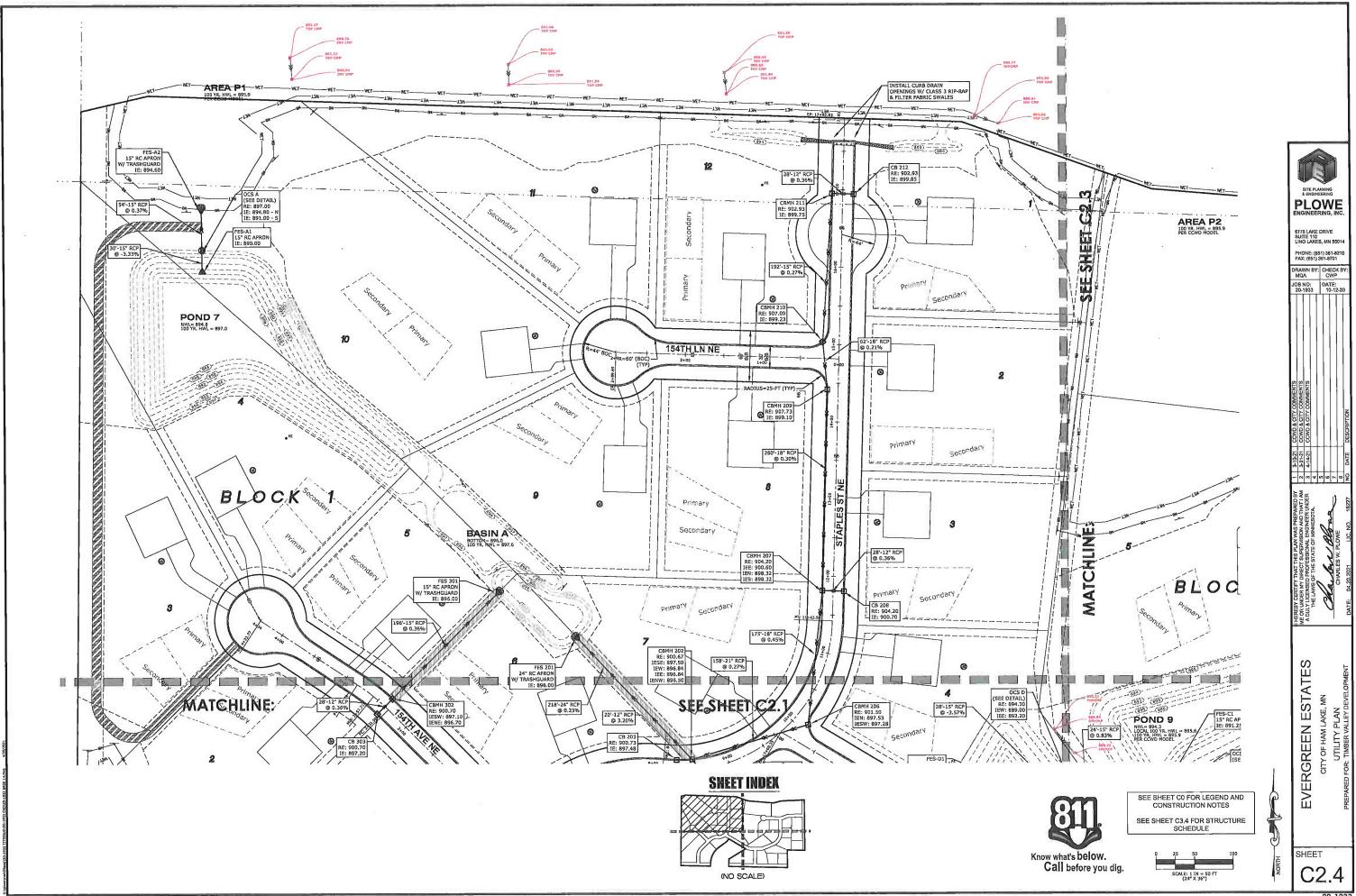
TITLE SHEET,

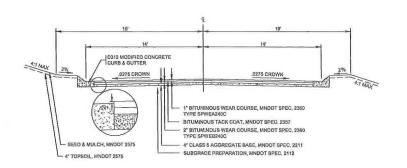
SHEET

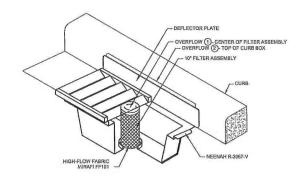






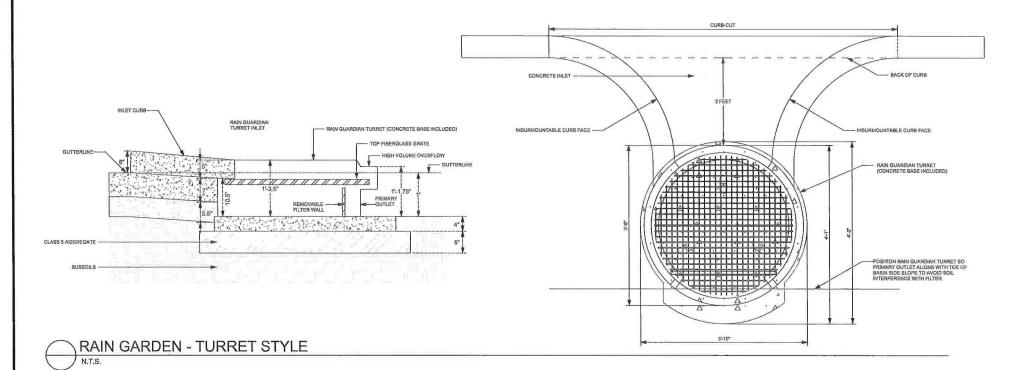


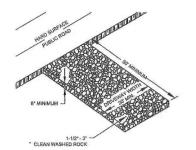




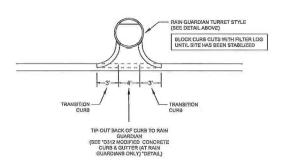
TYPICAL STREET SECTION (7-TON)

WIMCO INLET PROTECTION





ROCK CONSTRUCTION ENTRANCE N.T.S.



CURB CUTS @ RAIN GUARDIAN N.T.S.



D312 MODIFIED CONCRETE CURB & GUTTER N.T.S.

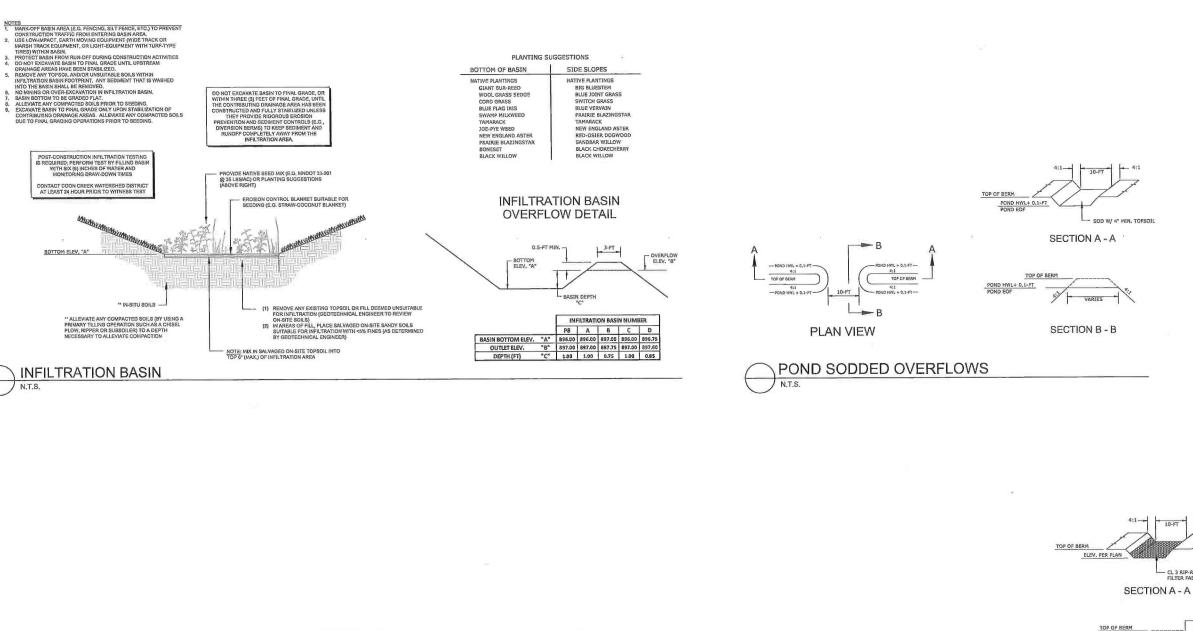
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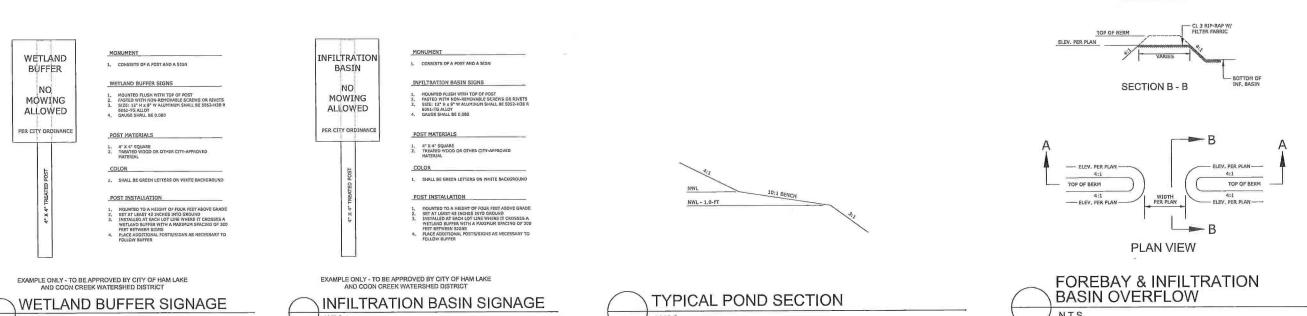
6776 LAKE DRIVE SUITE 110 LINO LAKES, MN 55014

PHONE: (651) 381-8210 FAX: (651) 351-8701

EVERGREEN ESTATES CITY OF HAM LAKE, MN

SHEET



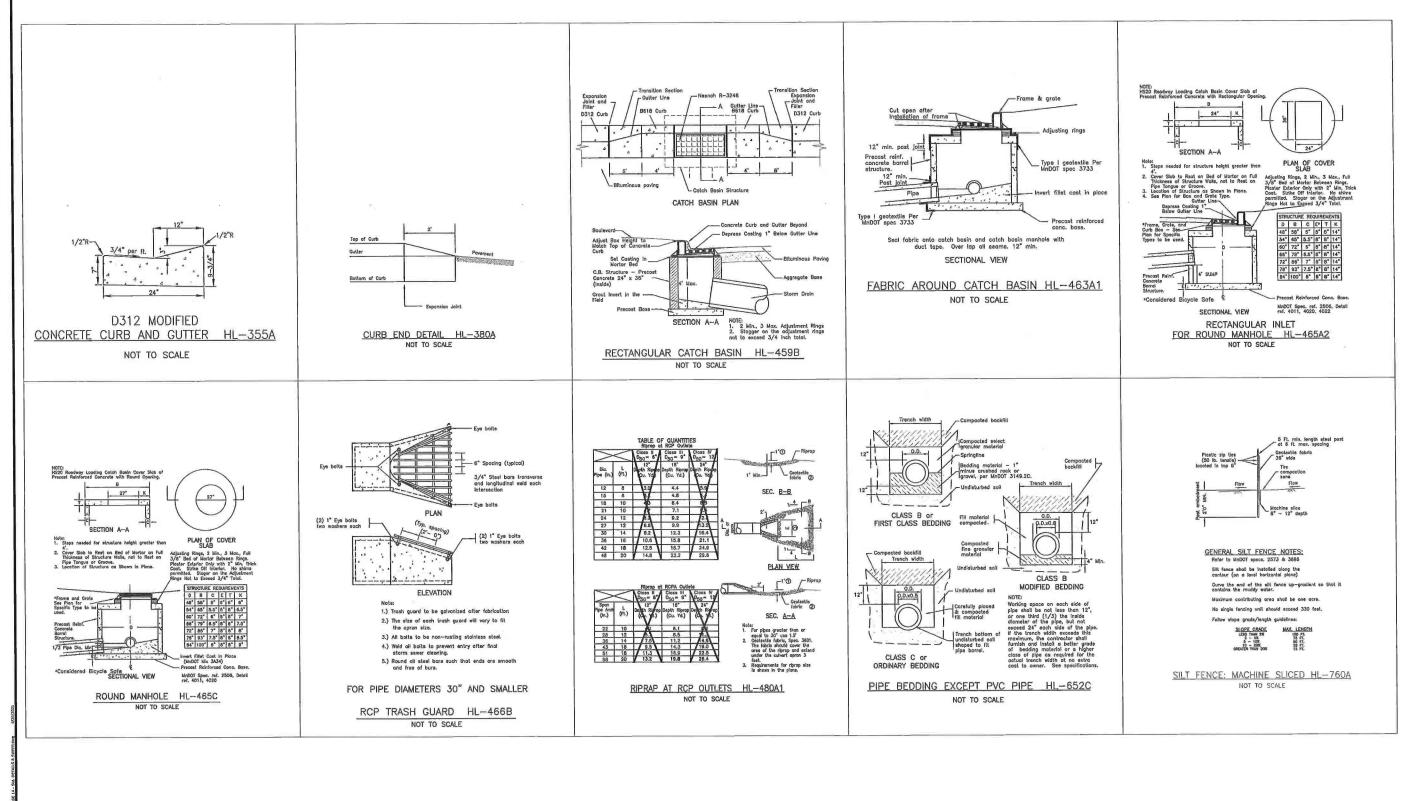


N.T.S.

N.T.S.

PLOWE 6776 LAKE DRIVE SUITE 110 LINO LAKES, MN 55014 PHONE: (651) 361-8210 FAX: (651) 361-8701 JOB NO: DATE: 10-12-EVERGREEN ESTATES CITY OF HAM LAKE, MN

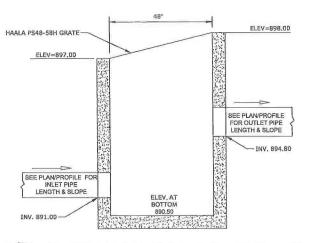
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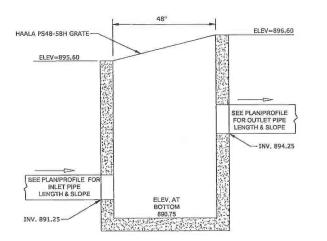
PLOWE 6776 LAKE DRIVE SUITE 110 LINO LAKES, MN 5501 PHONE: (651) 361-8210 FAX: (651) 361-8701 JOB NO: DATE: 10-12-2

EVERGREEN ESTATES CITY OF HAM LAKE, MIN

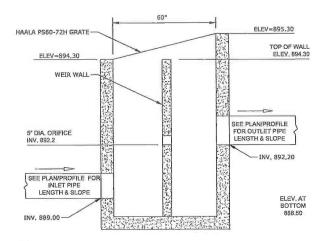
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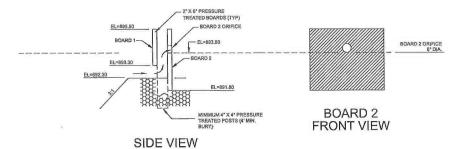
OUTLET CONTROL STRUCTURE "A" (POND 7) N.T.S.

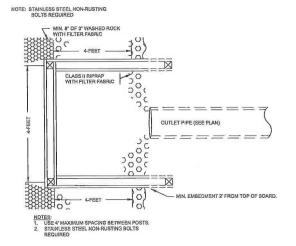


OUTLET CONTROL STRUCTURE "C" (POND 9) N.T.S.

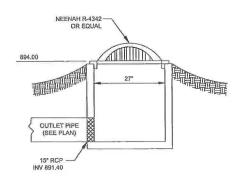


OUTLET CONTROL STRUCTURE "D" (POND 10) N.T.S.

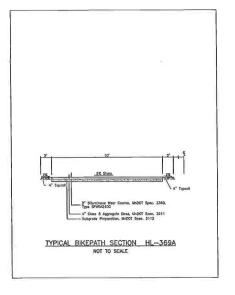


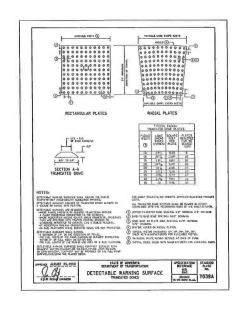


BAFFLE WEIR (WITH ORIFICE FOR RATE CONTROL) - POND 12



OUTLET CONTROL STRUCTURE "E" (OUTSIDE P3 WETLAND) N.T.S.





#	SIZE	CASTING	#	SIZE	CASTING
202	72" DIA.	NEENAH R-3246-C	602	48" DIA.	NEENAH R-3246-C
203	2' x 3'	NEENAH R-3246-C	603	60" DIA.	NEENAH R-3246-C
206	48° DIA.	NEENAH R-3246-C	604	60" DIA.	NEENAH R-3246-C
207	48* DIA.	NEENAH R-3246-C	607	2' x 3'	NEENAH R-3246-C
208	2' x 3'	NEENAH R-3246-C			
209	48" DIA.	NEENAH R-3246-C			
210	48° DIA,	NEENAH R-3246-C	702	48" DIA,	NEENAH R-3246-C
211	48" DIA.	NEENAH R-3246-C	703	2' x 3'	NEENAH R-3246-C
212	2' x 3'	NEENAH R-3246-C			
			705	48" DIA,	NEENAH R-3246-C
302	48" DIA.	NEENAH R-3246-C	706	2' x 3'	NEENAH R-3246-C
303	2' x 3'	NEENAH R-3246-C	707	2' x 3'	NEENAH R-3246-C
402	48" DIA.	NEENAH R-3246-C	802	48" DIA.	NEENAH R-1733
403	2' x 3'	NEENAH R-3246-C	803	48" DIA.	NEENAH R-3246-C
			804	2' x 3'	NEENAH R-3246-C
501A	48" DIA.	NEENAH R-1733			
502	48" DIA.	NEENAH R-3246-C	В	48" DIA.	NEENAH R-1733
503	48" DIA.	NEENAH R-3246-C	F	60" DIA.	NEENAH R-1733
504	2' x 3'	NEENAH R-3246-C	G	48" DIA.	NEENAH R-1733
505	2' x 3'	NEENAH R-3246-C	J	60" DIA.	NEENAH R-1733



EVERGREEN ESTATES
CITY OF HAM LAKE, MN

SHEET

1.2 PERMITTEES MUST SUBMIT A NOT WITHIN 30 DAYS AFTER ALL TERMINATION CONDITIONS LISTED IN SECTION 13 ARE COMPLETE, MINN, R. 7090]

LEIE, MINN. Y. 7990J

RAITITEES MUST SUBMIT A NOT WITHIN 30 DAYS AFTER SELLING OR OTHERWISE LEGALLY TRANSFERRING THE ENTIRE
NOLUDING PERMIT RESPONSIBILITY FOR ROADS (E.G., STREET SWEEPING) AND STORMWATER INFRASTRUCTURE FINAL
OUT, OR TRANSFERRING PORTONS OF A SITE TO ANOTHER PARTY. THE PERMITTEES' COVERAGE UNDER THIS PERMIT
INATES AT MIDNIGHT ON THE SUBMISSION DATE OF THE NOT, [MINN, R, 7000]

4.4 PERMITTEES MAY TERMINATE PERMIT COVERAGE PRIOR TO COMPLETION OF ALL CONSTRUCTION ACTIVITY IF THEY MEET ALL OF THE FOLLOWING CONDITIONS:

CONSTRUCTION ACTIVITY HAS CEASED FOR AT I FART ON DAVE. 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 ITEM 13,3 THROUGH 13,7.

AFTER PERMIT COVERAGE IS TERMINATED UNDER THIS ITEM, ANY SUBSEQUENT DEVELOPMENT ON THE REMAINING PORTIONS OF THE SITE WILL REQURE PERMIT COVERAGE IF THE SUBSEQUENT DEVELOPMENT ITSELF OR AS PART OF THE REMAINING COMMON PLAN OF DEVELOPMENT OR SALE WILL RESULT IN LAND DISTURBING ACTIVITIES OF ONE (1) OR MORE ACRES IN SIZE. MINN. R. 7369]

4.5 PERMITTEES MAY TERMINATE COVERAGE UPON MPCA APPROVAL AFTER SUBMITTING INFORMATION DOCUMENTING THE

5.1 SYLPPT ANIERUMENT 13, IMMN. N. 7000]
5.2 ONE OF THE INDIVIDUAL BESCRIBED IN 1EM 21.2.A OR ITEM 21.2.8 OR ANOTHER QUALIFIED INDIVIDUAL MUST COMPLETE ALL SYPPP CHANGES, CHANGES INVOLVING THE USE OF A LESS STRINGENT THE MUST HORIZUDE A JUSTIFICATION DESCRIBING HOW THE REPLACEMENT BY IN EFFECTIVE FOR THE SITE CHARACTERISTICS, IMIN. R. 7000]

HOW THE REPLACEMENT BMP IS EFFECTIVE FOR THE SITE CHARACTERISTICS, IMINI. R. 7000]

8.3 PERMITTERS MUST AMEND THE SWPPP TO INCLUDE ADDITIONAL OR MODIFIED BMPS AS RECESSARY TO CORRECT PROBLEMS IDENTIFIED ON ADDRESS SITUATIONS WHEVER THERE IS A CHAMBE IN DESIGN, CONSTRUCTION, OPERATION, AND ADDRESS SITUATIONS HAVING A SUSMIFICANT EFFECT ON THE DISCHARGE OF POLILUTARIES TO MAINTENANCE, WE WITH THE STANDARD OF THE SWEET OF THE STANDARD OF THE SWEET AMEND THE SWEET OF THE STANDARD OF THE SWEET OF THE SWEET OF THE SWEET OF THE SWEET OWNER OR OPERATOR, USEPA OR MPCA OFFICIALS INDICATE THE SWPPP IS NOT EFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING THE DISCHARGE OF POLILUTARIES TO SUBTRACE WATERS OR GROUNDWATER OR THE OSCIALAGE OF POLILUTARIES TO SUBTRACE WATERS OR GROUNDWATER OR THE OSCIALAGE OR POLILUTARIES TO SUBTRACE WATERS OR GROUNDWATER OR THE OSCIALAGE OR POLILUTARIES TO SUBTRACE WATERS OR GROUNDWATER OR THE OSCIALAGE OR SUBTRACE OR SUBTRACE WATERS OR GROUNDWATER OR THE OSCIALAGE OR SUBTRACE OR SUBTRACE OR

7.1 BMP SELECTION AND INSTALLATION, [MINN: R. 7080]
7.2 PERMITTEES MUST SELECT, INSTALL, AND MAINTAIN THE BMPS IDENTIFIED IN THE SWPPP AND IN THIS PERMIT IN AN APPROPRIATE AND FOUNDTIONAL MAINER AND IN ACCORDANCE WITH RELEVANT MANUFACTURER SPECIFICATIONS AND ACCEPTED ENGINEERING PRACTICES, [MINN: R. 7080]

8.1 EROSION PREVENTION PRACTICES, IMINN. R. 7980]
8.2 BEFORE WORK BEGINS, PERMITTEES MUST DELINEATE THE LOCATION OF AREAS NOT TO BE DISTURBED, [MINN, R. 7980]
8.3 PERMITTEES MUST MINIMER IT IS REED FOR DISTURBANCE OF PORTIONS OF THE PROJECT WITH STEEP SLOPES, WHEN STEEP SLOPES MUST BE DISTURBED, PERMITTEES MUST USE TECHNIQUES SUCH AS PHASING AND STABILIZATION PRACTICES DESIGNED FOR STEEP SLOPES (E.G., SLOPE DRAMING AND TERRACIOS), [MINN, R. 7981]

DESIGNED FOR STEEP SLOPES (E.G., SLOPE DRAINING AND TERRACINS), IMIN, R. 7990)

AS PERMITTEES MUST STRAILEZ ALL EXPOSED SOLA, AREAS, INCLUDIOS STOCKPILES, STABILIZATION MUST BE INITIATED IMMEDIATELY TO LIMIN SOLIC HOSQUE WHEN CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CLASED ON ANY OFFICE AND MUST BE AND ALL TO THE CONTROL OF THE CONTROL O

8.5 FOR PUBLIC WATERS THAT THE MINISSOTA DR HAS PROMULGATED "WORK IN WATER RESTRICTIONS" DURING SPECIFIED FIRST SWANING THAT FIRST WATER RESTRICTIONS DURING SPECIFIED FIRST SWANING THAT FRAMES, PERMITTERS MUST COMPLETE STABILIZATION OF ALL EXPOSED SOIL AREAS WITHIN 200 FEET TO SHE WATERS SOED, AND THAT DO NAME TO THE WATER STABILIZATION OF ALL DRING THE RESTRICTION PERMOD, IRBN. R. TORSHE WATERS SOED, AND THAT DO NAME TO THE WATER STABILIZATION OF A HOURS DURING THE RESTRICTION PERMOD, IRBN. R. TORSHE WATER STABILIZATION OF THE RESTRICTION PERMOD, IRBN. R. TORSHE WATER STABILIZATION OF THE RESTRICTION PERMOD, IRBN. R. TORSHE WATER STABILIZATION OF THE RESTRICTION PERMOD, IRBN. R. TORSHE WATER STABILIZATION OF THE RESTRICTION PERMOD, IRBN. R. TORSHE WATER STABILIZATION OF THE RESTRICTION PERMOD, IRBN. R. TORSHE WATER STABILIZATION OF THE RESTRICTION PERMOD, IRBN. R. TORSHE WATER STABILIZATION OF THE RESTRICTION PERMOD, IRBN. R. TORSHE WATER STABILIZATION OF THE RESTRICTION PERMOD, IRBN. R. TORSHE WATER STABILIZATION OF THE RESTRICTION PERMOD, IRBN. R. TORSHE WATER STABILIZATION OF THE RESTRICTION PERMOD, IRBN. R. TORSHE WATER STABILIZATION OF THE RESTRICTION PERMOD, IRBN. R. TORSHE WATER STABILIZATION OF THE RESTRICTION PERMOD, IRBN. R. TORSHE WATER STABILIZATION OF THE RESTRICTION PERMOD, IRBN. R. TORSHE WATER STABILIZATION OF THE RESTRICTION PERMOD, IRBN. R. TORSHE WATER STABILIZATION OF THE RESTRICTION PERMOD, IRBN. R. TORSHE WATER STABILIZATION OF THE RESTRICTION PERMOD, IRBN. R. TORSHE WATER STABILIZATION OF THE RESTRICTION PERMOD, IRBN. R. TORSHE WATER STABILIZATION OF THE RESTRICTION PERMOD, IRBN. R. TORSHE WATER STABILIZATION PERMOD, IRBN. R. TORSHE WATER STA

9.6 PERMITTEES MUST STABILIZE THE NORMAL WETTED PERIMETER OF THE LAST 200 LINEAR FEET OF TEMPORARY OR PERMANENT ORANAGE DITCHES OR SYALES THAT DRAWATER FROM THE SITE WITHIN 24 HOURS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY DEGLE, PERMITTERS MUST COMPLETE STABILIZATION OF REMAINING PORTIONS OF TEMPORARY OR PERMANENT DITCHES OR SYALES WITHIN T CALERDAR DAYS AFTER CONNECTING TO A SURFACE WATER OF PROPERTY DEGLE AND CONSTRUCTION IN THAT PORTION OF THE DITCH TEMPORARY (OR PERMANENTLY CEASES, MINN C.

ST TEMPORARY OR PERMANENT DITCHES OR SWALES BEING USED AS A SEDIMENT CONTAINMENT SYSTEM DURING CONSTRUCTION (WITH PROPERLY DESIGNED ROCK-DITCH CHECKS, BIO ROLLS, SILT DIKES, ETG, JOD NOT NEED TO BE STABILIZED, PERMITTEES MUST STABILIZE THESE AREAS WITHIN 24 HOURS AFTER THEIR USE AS A SEDIMENT CONTAIN SYSTEM CEASES, MINN, R, 1709).

SYSTEM CEASES, IMMN. K. (789)

8.8 PERMITTEES MIST NOT USE MULCH, HYDROMULCH, TACKIFIER, POLYACRYLAMDE OR SIMILAR EROSION PREVENTION
PRACTICES WITHIN ANY PORTION OF THE NORMAL WEITED PERMITTER OF A TEMPORARY OR PERMANENT DRAINAGE DITCH
OR SYMLE SECTION WITH A CONTINUOUS SLOPE OF GREATER THAN PERCENT, MINN. R. 7090]

8.9 PERMITTEES MUST PROVIDE TEMPORARY OR PERMANENT ENERGY DISSIPATION AT ALL PIPE OUTLETS WITHIN 24 HOURS AFTER CONNECTION TO A SURFACE WATER OR PERMANENT STORMWATER TREATMENT SYSTEM, [MINN. R, 7090] 8.10 PERMITTEES MUST NOT DISTURB MORE LAND (I.E., PHASING) THAN CAN BE EFFECTIVELY INSPECTED AND MAINTAINED IN ACCORDANCE WITH SECTION 11. IMINN. R. 70801

9.3 IF DOWNGRADIENT SEDIMENT CONTROLS ARE OVERLOADED, ASED ON FREDUENT FALURE OR SECESSIVE MAINTENANCE REQUIREMENTS, PERMITTESS MUST INSTALL ADDITIONAL LIPGRADIENT SEDIMENT CONTROL, PRACTICES OR REDUINDANT BMPS TO ELMINATE THE OVERLOADING AND AMEND THE SWPPP TO IDENTIFY THESE ADDITIONAL PRACTICES AS REQUIRED IN ITEM 6.3, MINN. R. 7030]

AS 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 STE CONDITIONS, (MINN. 7.030)

AS A FLOATING SILT CURTAIN PLACED IN THE WATER IS NOT A SEDIMENT CONTROL BMP TO SATISFY ITEM 9.2 EXCEPT WHEN WORKING ON A SHORELINE OR BELOW THE WATERLINE. IMMEDIATELY AFTER THE SHORT TERM CONSTRUCTION ACTIVITY (E.G., INSTALLATION OF FIR PAR A DUNOT THE SHORELINE) IN THAT AREA IS COMPLETE, PERMITTEES MUST INSTALL AN UPLAND PERIMETER CONTROL PRACTICE IF EXPOSED SOILS STILL DRAIN TO A SURFACE WATER, IMINN R, 7090)

9.8 PERMITTEES MUST RE-INSTALL ALL SEDIMENT CONTROL PRACTICES ADJUSTED OR REMOVED TO ACCOMMODATE SHORT-TERM ACTIVITES SUCH AS CLEARING OR GRUBBING, OR PASSAGE OF VEHICLES, IMMEDIATELY AFTER THE SHORT-TERM ACTIVITY IS COMPLETED, PERMITTEES MUST RE-INSTALL SEDIMENT CONTROL PRACTICES BEFORE THE NEXT PRECIPITATION EVENT EVEN IF THE SHORT-TERM ACTIVITY IS NOT COMPLETE, IMINN, R, 7090]

PROJUCTIANION EVEN LEVEN F THE SHORT-TERM ACTIVITY IS NOT COMPLETE, MINN. R, 7000)

A? PERMITTEES MUST PROTECT ALL STORM DAMN INLETS USING APPROPRIATE BEING DURING CONSTRUCTION UNTIL THEY ESTABLISH PERMANENT COVER ON ALL AREAS WITH POTENTIAL FOR DISCHARGING TO THE INLET, MINN. R, 7000)

9.8 PERMITTEES MY REMOVE INLET PROTECTION FOR A PARTICULAR INLET IF A SPECIFIC SAFETY CONCERN (E.G., STREET FLOODINGFREEZING) IS IDENTIFIED BY THE PERMITTEES OR THE JURISDICTIONAL AUTHORITY (E.G., CITYLCOUNTYTOWNSHEWINNESSOTA DEPARTMENT OF TRANSPORTATION ENGINEER), PERMITTEES MUST DOCUMENT THE NEED FOR REMOVAL IN THE SHYPP, MINN. R, 7000 TO TRANSPORTATION ENGINEER), PERMITTEES MUST DOCUMENT THE NEED FOR REMOVAL IN THE SHYPP, MINN. R, 7000 TO TRANSPORTATION ENGINEER), PERMITTEES MUST DOCUMENT THE

9.9 PERMITTEES MUST PROVIDE SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROLS AT THE BASE OF STOCKPILES ON THE DOWNGRADIENT PERIMETER, [MINN. R. 7991]

A IN PERMITTEES MUST LOCATE STOCKPILES OUTSIDE OF NATURAL BUFFERS OR SURFACE WATERS, INCLUDING STORMWATER CONVEYANCES SUCH AS CURE AND GUTTER SYSTEMS UNLESS THERE IS A BYPASS IN PLACE FOR THE STORMWATER (MINN. R, 1939) 9.11 PERMITTEES MUST INSTALL A VEHICLE TRACKING BMP TO MINIMIZE THE TRACK OUT OF SEDIMENT FROM THE CONSTRUCTION SITE OR ONTO PAVED ROADS WITHIN THE SITE, IMINN, R. 70901

8.12 PERMITTEES MUST USE STREET SWEEPING IF VEHICLE TRACKING BMPS ARE NOT ADEQUATE TO PREVENT SEDIMENT TRACKING ONTO THE STREET, MINN, R. 7090]

9,13 PERMITTEES MUST INSTALL TEMPORARY SEDIMENT BASINS AS REQUIRED IN SECTION 14, MINN, R. 7090) 9.14 IN ANY AREAS OF THE SITE WHERE FINAL VEGETATIVE STABILIZATION WILL OCCUR, PERMITTEES MUST RESTRICT VEHICLE AND EQUIPMENT USE TO MINIMIZE SOIL COMPACTION, (MINN, R, 7090)

9.15 PERMITTEES MUST PRESERVE TOPSOIL ON THE SITE, UNLESS INFEASIBLE, IMINN, R. 70901

9.15 PERMITTEES MUST PRESCRIVE TOPSOIL ON THE SITE, UNLESS INFEASIBLE, IMMN. R. 7090]
9.16 PERMITTEES MUST DIRECT DISCHARGES FROM BMPS TO VEGRATATED AREAS UNLESS INFEASIBLE, IMIN. R. 7090]
9.17 PERMITTEES MUST PRESCRIVE A 05 POOT NATURAL BUFFER OR. IF A BUFFER IS INFEASIBLE ON THE SITE, PROVIDE
REDUNDANT (DOUBLE) PERMITTER SEDIMENT CONTROLS WHEN A SUPFACE WATER IS LOCATED WITHIN 50 FEET OF THE
PROJECTS EARTH DISTURBANCES AND STORMWATER FLOWS TO THE SURFACE WATER. PERMITTEES MUST INSTALL
PERMITTER SEDIMENT CONTROLS AT LEAST 5 FEET APART VINLESS BUIFFED BY LACK OF AVAILABLE SPACE, NATURAL BUFFERS
ARE NOT REQUIRED ADJACENT TO ROAD DITCHES, JUDICUAL DITCHES, COUNTY DITCHES, STORMWATER CONVEYANCE
CHANNELS, STORM DARAIN INTERS MOS BEDIMENT BASINS. IP PRESERVING THE BUFFER IS INFEASIBLE, PERMITTEES MUST
DOCUMENT THE REACHS AND SEDIMENT BASINS. IP PRESERVING THE BUFFER IS INFEASIBLE, PERMITTEES MUST
DOCUMENT THE REACHS AND SEDIMENT BASINS. IP PRESERVING THE BUFFER IS INFEASIBLE, PERMITTEES MUST
THAT RETAINS ALL STORMWATER, IMM. R. 7090

THAT RETAINS ALL STORWINTER, [MINN. R. 7090]

B. 19 FERMITTERS MUST USE POLYMERS, PLOCOLULANTS, OR OTHER SEDIMENTATION TREATMENT CHEMICALS IN ACCORD
WITH ACCEPTED ENGINEERING PRACTICES, DOSING SPECIFICATIONS AND SEDIMENT REMOVAL DESIGN SPECIFICATIONS
PROVIDED BY THE MANUFACTURED OR SUPPLIER. THE PERMITTERS UNBUST USE CONVENTIONAL ERSIGN AND SEDIMENT
CONTROLS PRIOR TO CHEMICAL ADDITION AND MUST DIRECT TREATED STORWINTER TO A SEDIMENT CONTROL SYSTEM
FILTRATION OR SETTLEMENT OF THE FLOC PRIOR TO DISCHARGE, BINNIN, R. 7850]

10.1 DEWATERING AND BASIN DRAINING, IMINN, R. 70901

10.1 DEWATERING AND BASIN DIGNING, JIMAN K. 7090)

10.2 PERMITTEES MUST DISCHARGE TURBIO OR SEDIMENT-LADEN WATERS RELATED TO DEWATERING OR BASIN DRAINING (E.G., PUMPED DISCHARGES, TRENCHOTCH CUTS FOR DRAINAGE) TO A TEMPORARY OR PERMANENT SEDIMENT BASIN ON INCIDENT PROJECT STEE UNLESS INTERSIBLE, PERMITTEES MY DEWATER TO SURFACE WATERS IF THEY WEBLALLY CHECK TO ENSURE ADEQUATE TREATMENT HAS BEEN DETAINED AND NUISANCE CONDITIONS (SEE MINN, R. 7090.0210, SUPP. 2) WILL NOT RESULT FROM THE DISCHARGE. HE PERMITTENS AND PROOF TO ENTERING A FORM THE DISCHARGE DOES NOT ADVERSELY AFFECT THE SURFACE WATER OR DOWNSTREAM PROPERTIES, HINN, R. 7050.0210, WILL NOT HE SULT AFFECT THE SURFACE WATER OR DOWNSTREAM PROPERTIES, HINN, R. 7050.0210, WILL NOT WATER SEPARATIO OR SULTABLE FROM THE DISCHARGE DOES NOT ADVERSELY AFFECT THE SURFACE WATER OR DOWNSTREAM PROPERTIES, HINN, R. 7050.0210, WILL NOT AN ATTER SEPARATIO OR SULTABLE FLITTENT OF DEVICE (E.G., CARTRIDDE FILTERS, ASSORBEITS PADD) PROD TO DISCHARGE, MINN, R. 7090)

LEFILIARI IN LAVIES, LESS, CARTINUOS FILLERS, ABSURBERTIS PAUS IMPROY TO INSCHARGE, [MINN. R. 7090] RAMITTEES MUST DISCHARGE ALL WATER FROM DEWATERING OR BASH-DORAINING ACTIVITIES HA MANIES THAT DO USE EROBION OR SCOUL IN THE IMMEDIATE VICINITY OF DISCHARGE POINTS OR INJUNDATION OF WETLAND, IN THE RATE VICINITY OF DISCHARGE POINTS THAT CAUSES SIGNIFICANT ADVERSE IMPACTT OT THE WETLAND, IMINN. R. 7090]

10.5 IF PERMITTEES USE FILTERS WITH BACKWASH WATER, THEY MUST 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 MANINET THAT DOES NOT CAUSE EROSION, [MINN. R, 7090].

11.1 INSPECTIONS AND MAINTENANCE, [MINN, R, 7090]

11.2 PERMITTEES MUST ENSUIRE A TRAINED PERSON, AS IDENTIFIED IN ITEM 21.2.B, WILL INSPECT THE ENTIRE CONSTRUCTION SITE AT LEAST ONCE EVERY SEVEN (7) DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN LIGHOR IN 24 HOURS, IMHIN. R. 7080]

11.3 PERMITTEES MUST INSPECT AND MAINTAIN ALL PERMANENT STORMWATER TREATMENT BMPS, IMINN. R. 7090]

11.3 PERMITTEES MUST INSPECT AND MANTAIN ALL PERMANENT STORMWATER TREATMENT BMPS, IJMIN R. 7 (200)

11.4 PERMITTEES MUST INSPECT ALL EROSION PREVENTION AND SEMEMENT CONTROL MAPS AND POLITION PREVENTION
MANAGEMENT MEASURES TO ENSURE INTEGRITY AND EFFECTIVENESS, PERMITTEES MUST REPAIR, REPLACE OR SUPPLEMENT
ALL HOSPHOTTONIONAL BMPS WITH FUNCTIONAL BMPS BY THE END OF THE NEXT DISSINISES DAY AFTER BISCOVERY UNLESS
ANOTHER TIME FRAME IS SPECIFIED IN TEM 11.5 OR 11.5. PERMITTEES MAY TAKE ADDITIONAL TIME IF FIELD CONDITIONS
PREVENT ACCESSTO THE AFARE, BMMN. R. 7(20)

11.5 DURING EACH INSPECITION, PERMITTEES MUST INSPECT SILVENES (MIST ENGLISHED AND SECURITY OF THE AFARE AND SECURITY OF THE AF

1/09/1

11.8 PERMITTEES MUST INSPECT CONSTRUCTION SITE VEHICLE EXIT LOCATIONS, STREETS AND CURB AND GUTTER SYSTEM WITHIN AND ADJACENT TO THE PROJECT FOR SEDIMENTATION FROM EROSION OR TRACKED SEDIMENT FROM VEHICLES, PERMITTES MUST REMOVE SEDIMENT FROM ALL PAVED SURFACES WITHIN ONE (1) CALENDAR DAY OF DISCOVERY OR, IF APPLICABLE, WITHIN A SHORTER TIME TO AVOID A SAFETY HAZARD TO USERS OF PUBLIC STREETS, IMINM, R. 7/09/1 (1.7 PERMITTEES MUST REPAIR, REPLACE OR SUPPLEMENT ALL PERIMETER CONTROL DEVICES WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES 1/2 OF THE HEIGHT OF THE DEVICE, [MINN, R. 7090]

11.8 PERMITTEES MUST DRAIN TEMPORARY AND PERMANENT SEDIMENTATION BASINS AND REMOVE THE SEDIMENT WHEN THE DEPTH OF SEDIMENT COLLECTED IN THE BASIN REACHES 1/2 THE STORAGE VOLUME, IMINN, R, 7990] 11.9 PERMITTEES MUST ENSURE THAT AT LEAST ONE INDIVIDUAL PRESENT ON THE SITE FOR AVAILABLE TO THE PROJECT SITE IN THREE (3) CALENDAR DATS) IS TRAINED IN THE JOS DUTIES DESCRIBED IN THEM 21.28, [MINN. R. 7590]
11.10 PERMITTEES MAY ADJUST THE INSPECTION SCHEDULE DESCRIBED IN ITEM 11.28 FOLLOWS:

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

ACTIVITY CUM INVESTOR OTHER PORTIONS OF THE SITE, OR

WHERE SITES HAVE PERMANENT COVER ON ALL EXPOSED SOIL AND NO CONSTRUCTION ACTIVITY IS OCCURRING
ANYWHERE ON THE SITE, INSPECTIONS CAN BE REQUICED TO NICE FER MONTH AND, AFTER 12 MONTHS, MAY BE
SUSPENDED COMPLETELY UNTIL CONSTRUCTION ACTIVITY RESUMES. THE MPCA WAY REQUIRE INSPECTIONS TO RESUME
IF CONDITIONS WARRANTY, OR

C. WHERE CONSTRUCTION ACTIVITY HAS BEEN SUSPENDED DUE TO FROZEN GROUND CONDITIONS, INSPECTIONS MAY BE
SUSPENDED, INSPECTIONS MUST RESUME WITHIN 23 HOURS OF PUNOFF OCCURRING, OR UPON RESUMING
CONSTRUCTION, WHICHEVER COMES FIRST, [MINN. R. 7050]

[1] PERMITTEES MUST RESCORD ALL INSPECTIONS AND HAMPENAME COMES THE METALLING.

11.11 PERMITTEES MUST RECORD ALL INSPECTIONS AND MAINTENANCE ACTIVITIES WITHIN 24 HOURS OF BEING CONDUCTED AND THESE RECORDS MUST BE RETAINED WITH THE SWPPP. THESE RECORDS MUST INCLUDE:

A. DATE AND TIME OF INSPECTIONS; AND B. NAME OF PERSONS CONDUCTING INSPECTIONS; AND

C. ACCURATE FINDINGS OF INSPECTIONS, INCLUDING THE SPECIFIC LOCATION WHERE CORRECTIVE ACTIONS ARE NEEDED: D, CORRECTIVE ACTIONS TAKEN (INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES): AND

E, DATE OF ALL RAINFALL EVENTS GREATER THAN 1/2 INCHES IN 24 HOURS, AND THE AMOUNT OF RAINFALL FOR EACH EVENT, PERMITTEES MUST OBTAIN RAINFALL AMOUNTS BY EITHER A PROPERLY MAINTAINED RAIN GAUGE INSTALLED ONSITE, A WEATHER STATION THAT IS WITHIN ONE (3) MILE OF YOUR LOCATION, OR A WEATHER REPORTING SYSTEM THAT PROVIDES SITE SPECIFIC RAINFALL DATA FROM RADAR SUMMARIES; AND

F. IF PERMITTEES OBSERVE A DISCHARGE QUINT THE INSECTION, THEY MUST RECORD AND SHOULD PHOTOGRAPH AND DESCRIBE THE LOCATION OF THE DISCHARGE (I.E., COLOR, CODR, SETTLED OR SUSPENDED SOLIDS, CIL, SHEEN, AND OTHER DISCHARGE (I.E.).

G. ANY AMENDMENTS TO THE SWPPP PROPOSED AS A RESULT OF THE INSPECTION MUST BE DOCUMENTED AS REQUIRED IN SECTION 6 WITHIN SEVEN (1) CALENDAR DAYS, IMINN, R. 7090]

12,1 POLLUTION PREVENTION MANAGEMENT MEASURES, IMINN, R. 70901

12.2 PERMITTEES MUST PLACE BULDING PRODUCTS AND LANDSCAPE MATERIALS UNDER COVER (E.G., PLASTIC SHEETING OR TEMPORARY ROOFS) OR PROTECT THEM BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WITH STORMWATER, ENWITTEES ARE NOT REQUIRED TO COVER OR PROTECT PRODUCTS WHICH ARE ETHER NOT A SOURCE OF CONTAMINATION TO STORMWATER OR ARE DESIGNED TO BE EXPOSED TO STORMWATER, MINN. R. 7000]
12.3 PERMITTEES ARE SMED PLACE PESTICIOES, FERTULIZERS AND TREATMENT CHEMICALS UNDER COVER (E.G., PLASTIC SHEETING OR TEMPORARY ROOFS) OR PROTECT THEM BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WHICH BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WHICH BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WHICH BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WHICH BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WHICH BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WHICH BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WHICH BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WHICH BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WHICH BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WHICH BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WHICH BY SIMILARLY EFFECTIVE MEANS DESIGNED.

STUMMINIER, IGNIN, K., 1991

12.4 PERMITTEES MIST STORE HAZARDOUS MATERIALS AND TOXIC WASTE, (INCLUDING OIL, DIESEL FUEL, GASOLINE, HYDRAULOF FLUIDS, PRAINT SOLVENTS, PETROLEUM-BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING HYDRAULOF FLUIDS, PRAINT SOLVENTS, PETROLEUM-BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING COMPOUNDS, AND ACIDIS IN SEALED CONTAINSENT OF PREVENTS FRUILS, LEAKS OR OTHER DISCHARGE. STORAGE AND DISPOSAL OF HAZARDOUS WASTE MATERIALS MUST BE IN COMPLIANCE WITH MINN. R. CH, TOMS INCLUDING SECONDARY CONTRAINMENT AS APPLICABLE, MINN. R. 7909

12.5 PERMITTEES MUST PROPERLY STORE, COLLECT AND DISPOSE SOLID WASTE IN COMPLIANCE WITH MINN, R. CH. 7035. [MINN, R. 7035]

12.6 PERMITTEES MUST POSITION PORTABLE TOILETS SO THEY ARE SECURE AND WILL NOT TIP OR BE KNOCKED OVER, PERMITTEES MUST PROPERLY DISPOSE SANITARY WASTE IN ACCORDANCE WITH MINN, R. CH. 7041, [MINN, R. 7041] BAT PERMITTERS VIUST TWE REASONALE STEPS TO PREPRET THE DISCHAGE SPINLED PROVIDED CHEMICALS.

INCLUDING THE PROM MAY AREA WHERE CHEMICALS OR HILL. WHILL BE LOADED OF SIRVING HANDLE CHEMICALS OF DIRIP

PANS OR ASSORBENTS INLESS INFEASIBLE. PERMITTERS MUST ENQUIFE DEDILATE SUPPLIES ARE AVAILABLE AT ALL TIMES

TO CLEAN UP DISCHAGRED MATERIALS AND THAT AN APPROPRIATE DESPOSAL METHOD IS AVAILABLE AT ALL TIMES

SPILED MATERIALS. PERMITTERS MUST REPORT AND CLEAN UP SPILLS IMMEDIATELY AS REQUIRED BY MINN. STAT. 115.001,

USING DRY CLEAN UP MERGUIRES WHERE POSSIBLE, IMMS. STAT. 115.001

USING DRY CLEAN UP MEASURES WHERE POSSIBLE, MINN. STAT. 115.061]

12.9 PERMITTERS MUST IMM THE MICHESTERIOR WASHING AND COUPMENT TO A DEFINED AREA OF THIS SITE. PERMITTERS MUST COUNTY RUNGER THE MACHINE AREA IN A BEDMENT BASIN OR OTHER SIMILARLY EFFECTIVE CONTROLS AND MUST DEPOSE WASTE FROM THE WASHING AREA IN A BEDMENT BASIN OR OTHER SIMILARLY EFFECTIVE CONTROLS AND MUST DEPOSE WASTE FROM THE WASHING AREA IN A BEDMENT BASIN OR SOLVENTS. BINN. R. 700 LOTHLY PROPERLY. PERMITTERS MUST PROPERLY USE AND STORE SOAPS, DETERGENTS, OR SOLVENTS. BINN. R. 700 TONTANIMENT FOR ALL LOUID AND SOLD WASTES GENERATED BY WASHOUT OPERATIONS (E.G., CONGRETE, STUCCO, PAINT, FORM RELEASE DIS, CURRING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS RELATED TO THE CONSTRUCTION OF THE SOLD WASTES OF SOUR WASHOUT OWN WASTES FROM CONTROLTING THE GROUND AND MUST DESIGN THE CONTRINENTS OF TO DOES NOT RESULT IN RUNOFF FROM THE WASHOUT OPERATIONS OR AREAS. PERMITTEES MUST PROPERLY DISPOSE LIQUID AND SOLD WASTES IN COMPANIANCE WITH MPDA RULES. PERMITTEES MUST PROPERLY DISPOSE LIQUID AND SOLD WASTES IN COMPANIANCE WITH MPDA RULES. PERMITTEES MUST ROPERLY DISPOSE LIQUID AND SOLD WASTES IN COMPANIANCE WITH MPDA RULES. PERMITTEES MUST ROPERLY DISPOSE LIQUID AND SOLD WASTES IN COMPANIANCE WITH MPDA RULES. PERMITTEES MUST ROPERLY DISPOSE LIQUID AND SOLD WASTES IN COMPANIANCE WITH MPDA RULES. PERMITTEES MUST ROPERLY DISPOSE LIQUID AND SOLD WASTES IN COMPANIANCE WITH MPDA RULES. PERMITTEES MUST ROPERLY DISPOSE LIQUID AND SOLD WASTES IN COMPANIANCE WITH MPDA RULES. PERMITTEES MUST ROPERLY DISPOSE LIQUID AND SOLD WASTES IN COMPANIANCE WITH MPDA RULES. PERMITTEES MUST ROPERLY DISPOSE LIQUID AND SOLD WASTES IN COMPANIANCE WITH MPDA RULES. PERMITTEES MUST PROPERLY DISPOSE LIQUID AND SOLD WASTES IN COMPANIANCE WITH MPDA RULES. PERMITTEES MUST PROPERLY DISPOSE LIQUID AND SOLD WASTES IN COMPANIANCE WITH MPDA RULES. PERMITTEES MUST PROPERLY DISPOSE LIQUID AND SOLD WASTES IN COMPANIANCE WITH MPDA RULES.

13.2 PERMITTERS 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 PERENMAL VEGETATION WITH A DENSITY OF TO PERCENT OF ITS EXPECTED PINAL 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 [MINN, R. 7090] 13.3 PERMITTEES MUST CLEAN THE PERMANENT STORMWATER TREATMENT SYSTEM OF ANY ACCUMULATED SEDIMENT AND MUST ENSURE THE SYSTEM MEETS ALL APPLICABLE REQUIREMENTS IN SECTION 15 THROUGH 19 AND IS OPERATING AS

13.4 PERMITTEES MUST REMOVE ALL SEDIMENT FROM CONVEYANCE SYSTEMS PRIOR TO SUBMITTING THE NOT, IMINN. R. 70901 13.5 PERMITTEES MUST REMOVE ALL TEMPORARY SYNTHETIC EROSION PREVENTION AND SEDIMENT CONTROL BMPS PRIOR TO SUBMITTING THE NOT. PERMITTEES MAY LEAVE BMPS DESIGNED TO DECOMPOSE ON-SITE IN PLACE. [MINN. R. 7090] 13.FOR RESIDENTIAL CONSTRUCTION ONLY, PERMIT COVERAGE TERMINATES ON INCVIDUAL LOTS IF THE STRUCTURES ARE FINISHED AND TEMPORARY EDGISION PREVENTION AND DOWNGROUGHET PREMITER CONTROL IS CONFLICT, THE RESIDENCE SELLS TO THE HOMEOWHER, AND THE PERMITTEE DISTRIBUTES THE MPCAS "HOMEOWHER FACT SHEET" TO THE COMECOWERE, MINN. R, 7890]

13.7 FOR CONSTRUCTION PROJECTS ON AGRICULTURAL LAND (E.G., PIPELINES ACROSS CROPLAND), PERMITTEES MUST RETURN THE DISTURBED LAND TO ITS PRECONSTRUCTION AGRICULTURAL USE PRIOR TO SUBMITTING THE NOT. MINN. R. 7090)

14.1 TEMPORARY SEDIMENT BASINS, [MINN, R. 7090]

142 WHERE THE 1(1) OR MORE ACRES OF DISTURBED SOIL DRAIN TO A COMMON LOCATION, PERMITTEES MUST PROVIDE TEMPORARY SEDMENT BASIN TO PROVIDE TREATMENT OF THE RUNOFF BEFORE IT LEAVES THE CONSTRUCTION SITE TEMPORARY SEDMENT BASIN TO PROVIDE TREATMENT OF THE RUNOFF BEFORE IT LEAVES THE CONSTRUCTION SITE SETTING STATE OF THE TEMPORARY BASIN SO IL ONDER REQUIRED WHEN PERMANENT BASIN AFTE CONSTRUCTION IS COMPLETE. THE TEMPORARY BASIN SO IL ONDER REQUIRED WHEN PERMANENT COVER HAS RECOMMENDED. THE ACREAGE OF DISTURBED SOIL TO LESS THAN TEN (10) ACRES DRAINING TO A COMMON LOCATION, MINN, R. 7090]

14.3 THE TEMPORARY BASIN MUST PROVIDE LIVE STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A TWO (2)-YEAR, 24-HOUR STORM FROM EACH ACRE DRAINED TO THE BASIN OR 1,800 CUBIC FEET OF LIVE STORAGE PER ACRE DRAINED, WHICKEVER IS GREATER, IMMN, R. 70901

14.4 WHERE PERMITTEES HAVE NOT CALCULATED THE TWO (2)-YEAR, 24-HOUR STORM RUNOFF AMOUNT, THE TEMPORARY BASIN MUST PROVIDE 3,500 CUBIC FEET OF LIVE STORAGE PER ACRE OF THE BASINS DRAIMAGE AREA, (MINN. R. 700) 14.5 PERMITTEES MUST DESIGN BASIN OUTLETS TO PREVENT SHORT-CIRCUITING AND THE DISCHARGE OF FLOATING DEBRIS, MINN. R. 7000 1

(MINN. K., (700))
1.48 PERMITTEES MUST DESIGN THE OUTLET STRUCTURE TO WITHDRAW WATER FROM THE SURFACE TO MINIMIZE THE
DISCHARGE OF POLLUTANTS, PERMITTEES MAY TEMPORARILY SUSPEND THE USE OF A SURFACE WITHDRAWAL MECHANI
DURING FROZEN COMDITIONS, THE BASIN MUST INCLUDE A STABILIZED EMERGENCY OVERFLOW TO PREVENT FAILURE OF
POND INTEGRITY, MINN. R. 7090)

14.7 PERMITTEES MUST PROVIDE ENERGY DISSIPATION FOR THE BASIN OUTLET WITHIN 24 HOURS AFTER CONNECTION TO A SURFACE WATER, MINN, R. 7080)

14.8 PERMITTEES MUST LOCATE TEMPORARY BASINS OUTSIDE OF SURFACE WATERS AND ANY BUFFER ZONE REQUIRED IN TEM 23.11, MAINN, R. 7090]

LEM 63.1 (MILIVE, R. 1092)

AP PERMITTERS MUST CONSTRUCT THE TEMPORARY BASINS PRIOR TO DISTURBING 10 OR MORE ACRES OF SOIL DRAINING TO A COMMON LOCATION. [MINN. R. 7090]

TO A COMMON LOCATION, MINN. R. 7090]

1-10 WHERE A THEMPORARY SECURIORIT BASIN MEETING THE REQUIREMENTS OF ITEM 14,3 THROUGH 14.9 IS INFEASIBLE, PERMITTEES MUST INSTALL EFFECTIVE SEGMENT CONTROLS SUCH AS SWALLER SEGMENT BASINS AND/OR SEGMENT TRAPS, SELT FEMCES, VEGETATIVE BUFFER STRIPS OR ANY APPROPRIATE COMBINATION OF HEASIBLES AS DICTATED BY HOWOMULA. SITE CONDITIONS, IN DETERMINING WHETHER INSTALLING A SEGMENT BASIN IS INFEASIBLE, PERMITTEES MUST CONSIDER PUBLIC SAFETY AND MAY CONSIDER FACTORS SUCH AS SITE SOILS, SLOPE, AND AVAILABLE AREA ON-SITE, PERMITTEES MUST COCUMENT THIS DETERMINATION OF INFEASIBLITY IN THE SWPPP, MINN, R, 7090]

15,1 PERMANENT STORMWATER TREATMENT SYSTEM, IMINN, R, 70901

IS A PERMITTEES MUST DESIGN THE PROJECT SO ALL STORMMATER DISCHARGED FROM THE PROJECT DURING AND A TER CONSTRUCTION ACTIVITIES DOES NOT CAUSE A VIOLATION OF STATE WATER GUALITY STANDARDS. NOLUJING INJEANCE CONDITIONS, EROSION IN RECEIVING CHANNELS OR ON DOWNSLOPE PROPERTIES, OR A SIGMIFICANT ADVERSE IMPACT TO METLANDS CAUSED BY INJUNIONION OR DEGREASE OF FLOW, IMBN. R, 7009]

5.4 PERMITTEES MUST CALCULATE THE WATER QUALITY VOLUME AS ONE (1) INCH TIMES THE NET INCREASE OF IMPERVIOUS SURFACES CREATED BY THE PROJECT, IMINN. R. 70501

GENERAL SCREETE IN THE PROJECT (MANY R. 1999)

16.5 PERMITTERS MUST FIRST CONSIDER VOLUME REDUCTION PRACTICES ON-SITE (E.G., INFILTRATION OR OTHER) WHEN DESIGNING THE PERMANENT STORMWATER TREATMENT SYSTEM. IF THIS PERMIT PROPERTY OF THE PROPERTY OF THE SECRETARY OF THE SECRETAR

15.6 FOR PROJECTS WHERE THE FULL VOLUME REDUCTION REQUIREMENT CANNOT BE MET ON-SITE, (E.G., THE SITE HAS INFETRATION PROHIBITIONS), PERMITTEES MUST DOCUMENT THE REASONS IN THE SWPPP, IMINN. R. 70901 INFLITRATION PROHIBITIONS), PERMITTEES MUST DOCUMENT THE REASONS IN THE SWPPP, (MINN, R. 7069)

15.7 PERMITTEES MUST DISCLARGE THE WATER OUALITY VOLUME TO A PERMANENT STORMAYTEE TREATMENT SYSTEM PRIOR TO DISCHARGE TO A SURFACE WATER. FOR PURPOSES OF THIS TIEM, SURFACE WATERS DO NOT INCLIDE MAN-MADE PRIOR TO DISCHARGE TO A SURFACE WATER TO A PERMANENT STORMAYTEET REATMENT SYSTEM, MINN R. 7069)

15.8 WHERE THE PROXIMITY TO BEDROCK PRECLIDES THE INSTALLATION OF ANY OF THE PERMANENT STORMAYTEET REATMENT SYSTEM, MINN R. 70691

15.6 WHERE THE PROXIMITY TO BEDROCK PRECLIDES THE INSTALLATION OF ANY OF THE PERMANENT STORMAYTEET REATMENT SULCH AS GRASSED SWALES, SMALLER PONDS, OR GRIT CHAMBERS, PRIOR TO THE DISCHARGE OF STORMWATER TO SURFACE WATERS, MINN. R. 70691

MAIN. R. 7990]

18. FOR LINEAR PROJECTS WHERE PERMITTES CANNOT TREAT THE ENTIRE WATER QUALITY VOLUME WITHIN THE EXISTING RIGHT-OF-WAY, PERMITTES MIST MAKE A REASONABLE ATTEMPT TO OBTAIN ADDITIONAL RIGHT-OF-WAY, EASEMENT OR OTHER PERMISSION FOR STORMWATER THEATMENT DURING THE PROJECT PLANNING PROCESS. DOCUMENTATION OF THESE ATTEMPTS MUST SET IN THE SWIPP, PERMITTES MUST STILL CONSIDER VOLUME REDUCTION PRACTICES FIRST AS OBSCINED IN THE 15. IF PERMITTES CANNOT OBTAIN ADDITIONAL RIGHT-OF-WAY, REASEMENT OR OTHER PERMISSION, THEY MUST MAXIMIZE THE TREATMENT OF THE WATER QUALITY VOLUME PRIOR TO DISCHARGE TO SURFACE WATERS, MUNN. R. 7099]

18.1 INFILTRATION SYSTEMS, IMNN. R. 7080)

18.2 INFILTRATION OPTIONS INCLUDE, BUT ARE NOT LIMITED TO: INFILTRATION BASINS, INFILTRATION TRENCHES, RAINWATER GARDENS, BIORETERMION AREAS WITHOUT UNDERDRAINS, SWALES WITH IMPERMEABLE CHECK DAMS, AND NATURAL DEPRESSIONS, IF PERMITTEES UTILIZE AN INFILTRATION SYSTEM TO MEET THE REQUIREMENTS OF THIS PERMIT, THEY MUST INCORPORATE THE DESIGN PARAMETERS IN THE MS, 3THROUGH THEM TEXT, PERMITTEES MUST FOLLOW THE INFILTRATION PROHIBITION IN THEM 15, 14 ANYTIME AN INFILTRATION SYSTEM IS DESIGNED, INCLUDING THOSE NOT REQUIRED BY THIS PERMIT, IMNN. R. 7090]

AND MINN. K. 1990)

18.6 PERMITTEES MUST USE A PRETEGATMENT DEVICE SUCH AS A VEGETATED FILTER STRIP, FOREBAY, OR WATER CUALITY INLETTE, G., GRIT CHAMBERT TO REMOVE BOUIDS, FLOATING MATERIALS, AND DIL AND GREASE FROM THE RUNDET, TO THE MAXIMUM EXCENT PRACTICABLE, BEFORE THE SYSTEM KOUTES STORMANTER TO THE INFILTRATION SYSTEM, MINN. R. 1990 15,7 PERMITTEES MUST DESIGN INFILTRATION SYSTEMS TO PROVIDE A WATER CUALITY VOLUME (CALCULATED AS AN INSTANTANEOUS VOLUME) OF STORM (1) NOT HOT WITH THE VOLUME OF STORMANTER TREATED BY ANOTHER SYSTEM ON THE SITE, FROM THE NET INCREASE OF IMPERVIOUS SURFACES CREATED BY THE PROJECT, [MINN, R. 7000]

LUSU I BAS PERMITTEES MUST DESIGN THE INFILTRATION SYSTEM TO DISCHARGE ALL STORMWATER (INCLUDING STORMWATER IN EXCESS OF THE WATER CUALITY VOLUME) ROUTED TO THE SYSTEM THROUGH THE UPPERMOST SOIL SURFACE OR ENGINEERED MEDIA SURFACE WITHIN 48 HOURS, PERMITTEES MUST ROUTE ADDITIONAL FLOWS THAT CANNOT INFILTRATE WITHIN 48 HOURS TO BYPASS THE SYSTEM THROUGH A STABILIZED DISCHARGE POINT, IMINN, R. 7080] 16.9 PERMITTEES MUST PROVIDE A MEANS TO VISUALLY VERIFY THE INFILTRATION SYSTEM IS DISCHARGING THROUGH THE SOIL SURFACE OR FILTER MEDIA SURFACE WITHIN 48 HOURS OR LESS, [MINN, R, 7090]

OUR DUTFINES MUST PROVIDE AT LEAST NEEDES WITHIN 48 HOURS OR LESS, (MINN, R. 7080)

18.10 PERMITTEES MUST PROVIDE AT LEAST ONE SOIL BORING, TEST PIT OR INFILITATION PRACTICE FOR DETERMINING INFILITATION PRACTICE FOR DETERMINING INFILITATION PRACTICE FOR DETERMINING INFILITATION PROVIDED INFILITATION PRACTICE FOR DESIGN PURPOSES, PERMITTEES MUST DIVIDE PIELD MEASURED INFILITATION PRATES BY 2 AS A SAFETY FACTOR OR PERMITTEES CAN USE SOIL-BORING RESULTS WITH THE INFILITATION PRATE THAT IN THE MINNESOTA STORMWATER MANUAL TO DETERMINE DESIGN INFILITATION PRATES. WHEN SOIL BORINGS INDICATE TYPE A SOILS, PERMITTEES SHOULD PERFORM FILED MEASURED INFILITATION PRATE IS ABOVE 8.3 INCHES PER HOUR. HIS PERMIT PROVIDED INFILITATION PRATE IS ABOVE 8.3 INCHES PER HOUR. MINN. R. 7080)

18.12 PERMITTEES MUST EMPLOY APPROPRIATE AT MAJERT MEETING DESIGN FOR MINN. R. 7080

18.12 PERMITTEES MUST EMPLOY APPROPRIATE ON-SITE TESTING ENSURE A MINIMUM OF THREE (3) FEET OF SEPARATION FROM THE SEASONALLY SATURATED SOILS (OR FROM BEDROCK) AND THE BOTTOM OF THE PROPOSED INFILTRATION SYSTEM, MININ R. 7000.

. B.13 PERMITTEES MUST DESIGN A MAINTENANCE ACCESS, TYPICALLY EIGHT (8) FEET WIDE, FOR THE INFILTRATION SYSTEM, [MINN. R. 7080] 18.14 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS THAT RECEIVE RUNOFF FROM VEHICLE FUELING AND MAINTENANCE AREAS INCLUDING CONSTRUCTION OF INFILTRATION SYSTEMS NOT REQUIRED BY THIS PERMIT. ININI. R. 78801

FEMOLISMINE, CODE)

16.15 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS WHERE INFILTRATING STORMWATER MAY MOBILIZE HIGH LEVELS OF CONTAMINANTS IN SOIL, OR GROUNDWATER, PERMITTEES MUST ETHER COMPLETE THE MOPACS CONTAMINATION SCREENING CHECKLIST OR CONDUCT THIS OWN ASSESSMENT TO DETERMINE THE SUITABILITY FOR INFILTRATION, PERMITTEES MUST RETAIL THE CHECKLIST OR ASSESSMENT WITH THE SWIPPF, FOR MORE INFORMATION AND TO ACCESS THE MICHAEL WHICH STATE AND ALL MINN. R.

TOOD

TO SHE FERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS IN AREAS WHERE SOIL INFILTRATION

RATES ARE FIELD MEASURED AT MORE THAN 8,3 INCHES PER HOUR UNLESS THEY AMEND SOILS TO SLOW THE INFILTRATION

RATE BELOW B. SI INCHES PER HOUR, MINN. R. 7030

16.17 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS IN AREAS WITH LESS THAN THREE

(3) FEET OF SEPARATION DISTANCE FROM THE BOTTOM OF THE INFILTRATION SYSTEMS IN THE ELEVATION OF THE

SEASOMALLY SATURATED SOILS OR THE TOP OF BEDROCK, MINN. R. 7030)

16,18 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS IN AREAS OF PREDOMINATELY HYDROLOGIC SOIL GROUP TYPE D SOILS (CLAY), [MINN, R, 7080]

16.19 THIS PERMIT PROMISTS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS WITHIN A DRINKING WATER SUPPLY MANAGEMENT AREA (DWSMA) AS DEFINED IN MINN. R. 4720.5100, SUBP. 13, IF THE SYSTEM WILL BE LOCATED: A. IN AN EMERGENCY RESPONSE AREA (EARLY WITHIN A DWSMAN CLASSIFIED AS HAVING HIGH OR VERY HIGH VULNERABILITY AS DEFINED BY THE MINNESOTA DEPARTMENT OF HEALTH; OR

AS DEFINED BY THE MINNESOTA DEPARTMENT OF HEALTH; OR

B. IN AN ER MYTHIN A DYMSMA CLASSIFIED AS MODERATE VULNERABILITY UNLESS A REGULATED MS4 PERMITTEE
PERFORMED OR APPROVED A HIGHER LEVEL OF ENGINEERING REVIEW SUFFICIENT TO PROVIDE A FUNCTIONING
TREATMENT SYSTEM AND TO PREVENT ADVESSE IMPACTS TO GROUNDWATER, OR

C. OUTSIDE OF AN ERA WITHIN A DYMSMA CLASSIFIED AS HAVING HIGH OR VERY HIGH VULNERABILITY, UNLESS A REGULATED
MS4 PERMITTEE PERFORMED OR APPROVED A HIGHER LEVEL OF ENGINEERING REVIEW SUFFICIENT TO PROVIDE A
FUNCTIONING TREATMENT SYSTEM AND TO PREVENT ADVERSE IMPACTS TO GROUNDWATER.

SEE "HIGHER LEVEL OF ENGINEERING REVIEW" IN THE MINNESOTA STORMWATER MANUAL FOR MORE INFORMATION, [MINN, R,

18.20 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS IN AREAS WITHIN 1,000 FEET UPGRADIENT OR 100 FEET DOWNGRADIENT OF ACTIVE KARST FEATURES. MINN. R. 70901

16.21 THIS PERMIT PROHIBITS PROMITTES FROM CONSTRUCTING INFILITATION SYSTEMS IN AREAS THAT RECEIVE RUNOFF FROM THE FOLLOWING INDUSTRIAL FACILITIES NOT AUTHORIZED TO INFILITATE STORMARER UNDER THE MYPOES STORMARER FREMIT FOR INDUSTRIAL ACTURITIES AUTOMOBILE SALVAGE YARDS, SCRAP RECYCLING AND WASTE RECYCLING FACILITIES HAZARDOUS WASTE TREATMENT, STORAGE, OR DISPOSAL FACILITIES; OR AIR TRANSPORTATION FACILITIES THAT CONDUCT DELIGNA ACTURITIES, MINN. R. 7309]

17.1 FILTRATION SYSTEMS, IMINN. R. 7090]

17.2 FILTRATION OPTIONS INCLUDE, BUT ARE NOT LIMITED TO: SAND FILTERS WITH UNDERDRAINS, BIOFILTRATION AREAS, SWALES USING UNDERDRAINS WITH IMPERMEABLE CHECK DAMS AND UNDERGROUND SAND FILTERS. IF PERMITTEES UTILIZE A FILTRATION SYSTEM TO MEET THE PERMACHEN STORWHATE TREATMENT REQUIREMENTS OF THIS PERMIT, THEY WITH TEMS 17.3 THROUGH 17.1, IMINN. R. 7990]

17.4 PERMITTEES MUST NOT INSTALL FILTER REGOL UNTIL THEY CONSTRUCT AND FULLY STABILIZE THE CONTRIBUTING DRAINGE AREA UNLESS THEY PROVIDE REGORDUS EROSION PREVENTION AND SECIMENT CONTROLS (E.G., DIVERSION BETMS) TO KEEP SECIMENT AND ROMOFIC CONNECTED WAY AND SECIMENT CONTROLS (E.G., DIVERSION BETMS) TO KEEP SECIMENT AND ROMOFIC CONNECTED WAY AND SECIMENT CONTROLS (E.G., DIVERSION BETMS) TO KEEP SECIMENT AND ROMOFIC CONNECTED WAY AND SECIMENT OF TSS. [MINN, R, 7990]

17.4 PERMITTEES MUST DESIGN FILTRATION SYSTEMS TO REMOVE AT LEAST 80 PERCENT OF TSS. [MINN, R, 7991]

17.5 PERMITTEES MUST DESIGN FROM THE PERTEATMENT OF VICES SILLS AS A VEGETATED BETTE SYSTEM MAIL SEPMENTATION BASIN

1/5. FEMINTIESS MUST USE A PRETREATMENT DEVICE SUCH AS A VESETATED FILTER STRP. DMAIL SEDMENTATION BASIN WATER QUALITY INLEIF, PORBAY, OR INFORMANCISEPARATOR TO REMOVE SETTLEABLE SOLUS, I GOANNO MATERIALS, AND QUS AND GREASE FROM THE RUNDEF, TO THE MAXIMUM EXTENT PRACTICABLE. BEFORE RUNDEF ENTERS THE FILTERTOR OF STREEM, MANN, R. 7009]

FILITATION SYSTEM, [MANN, R. 7090]
17.6. PERMITTEES MUST DESIGN FUTATION SYSTEMS TO TREAT A WATER QUALITY VOLUME (CALCULATED AS AN INSTANTANEOUS VOLUME). OF DOES (1) INCH OF RUNDERS OF STORMYATER TREATED B. ANOTHER SYSTEM ON THE SITE, FROM THE NET INCREASE OF IMPROVIOUS SURFACES ORACTED BY THE PROJECT, [MINN, R.

1799.

17.7 PERMITTEES MUST DESIGN THE FILTRATION SYSTEM TO DISCHARGE ALL STORMWATER (INCLUDING STORMWATER IN EXCESS OF THE WATER GUALITY VOLUME) ROUTED TO THE SYSTEM THROUGH THE UPPERMOST SOIL SURFACE OF MUST SYSTEM OR BOSCHARGE THROUGH THE SUFFER SYSTEM OR BOSCHARGE THROUGH AN EMERGENCY OVERFLOW, MUNN. R. 7399.

17.4 PERMITTEES MUST DESIGN THE FILTRATION SYSTEM TO PROVIDE A MEANS TO VISILALLY VERIFY THE SYSTEM IS DISCHARGEN FROM LITERATION BY STEM TO PROVIDE A MEANS TO VISILALLY VERIFY THE SYSTEM IS DISCHARGEN FIRROUGH THE SOIL SURFACE OR FILTER MEDIA WITHIN 48 HOURS, MUNN. R. 7399.

13.9 PERMITTEES MUST EMPLOY APPROPRIATE ON-SITE TESTING TO ENSURE A MINIMUM OF THREE (3) FEET OF SEPARA BETWEEN THE S-BASONALLY SATURATED SOILS (OR FROM BEDROCK) AND THE BOTTOM OF THE PROPOSED FILTRATION SYSTEM, (MINN, R, 7090)

T1.10 PERMITTEES MUST ENSURE THAT FILTRATION SYSTEMS WITH LESS THAN THREE (3) FEET OF SEPARATION BETWEEN SEASONALLY SATURATED SOILS OR FROM BEDROCK ARE CONSTRUCTED WITH AN IMPERMEABLE LINER, IMMN. R. 70901

18.1 WET SEDIMENTATION BASIN, [MINN, R, 7090]

I8.2 PERMITTEES USING A WET SEDIMENTATION BASIN TO MEET THE PERMANENT STORMWATER TREATMENT REQUIREMENTS OF THIS PERMIT MUST INCORPORATE THE DESIGN PARAMETERS IN 11EM 18.3 THROUGH 18.10, JMINN. R. 7090] 18.3 PERMITTEES MUST DESIGN THE BASIN TO HAVE A PERMANENT VOLUME OF 1,800 CUBIC FEET OF STORAGE BELOW THE DUTLET PIPE FOR EACH AGRE THAT DRAINS TO THE BASIN, THE BASIN'S PERMANENT VOLUME MUST REACH A MINIMUM DEPTY OF AT LEAST THEEG (3) FEET AND MUST HAVE NO DEPTH GREATER THAN 10 FEET, PERMITTEES MUST CONFIGURE THE BASIN TO MINIMIZE SCOUR OR RESUSPENSION OF SOLIDS, [MINN, R. 7090]

18.4 PERMITTEES MUST DESIGN IT HE BASIN TO POUNDE LIVE STORAGE FOR A WATER QUALITY VOLUME (CALCULATED AS AN INSTANTANEOUS VOLUME) OF ONE (1) INCH OF RUNOFF, OR ONE (1) INCH MINUS THE VOLUME OF STORMWATER TREATED BY ANOTHER SYSTEM ON THE SITE, FROM THE HE TIN TRORAGES IN MERGENCIOUS SURFACES CREATED BY THE PROJECT, MINN R.

16,5 PERMITTEES MUST DESIGN BASIN OUTLETS SO THE WATER QUALITY VOLUME DISCHARGES AT NO MORE THAN 5,65 CUBIC FEET PER SECOND (CFS) PER ACRE OF SURFACE AREA OF THE BASIN, [MINN, R, 7090] 18.5 PERMITTEES MUST DESIGN BASIN OUTLETS TO PREVENT SHORT-CIRCUITING AND THE DISCHARGE OF FLOATING DEBRIS. BASIN OUTLETS MUST HAVE ENERGY DISSIPATION, IMINN, R, 7090)

18.7 PERMITTEES MUST DESIGN THE BASIN TO INCLUDE A STABILIZED EMERGENCY OVERFLOW TO ACCOMMODATE STORM EVENTS IN EXCESS OF THE BASIN'S HYDRAULIC DESIGN, [MINN, R, 7090] 18.8 PERMITTEES MUST DESIGN A MAINTENANCE ACCESS, TYPICALLY EIGHT (8) FEET WIDE, FOR THE BASIN, IMINN. R. 70901

10.0 F CHMIN LEGS MUST UESSIGN A MAIN HEMANUS ACCESS, TYPICALLY EIGHT (6) FEET WIDE, FOR THE BASIN, BAIN, TO 300 I 18.9 FERMITTEES MUST LOCATE BASINS OUTSIGN OF SURFACE WATERS AND ANY BUFFER ZONE REQUIRED IN TIEM 23.11, PERMITTEES MUST DESIGN BASINS TO AVOID DRAINING WATER FROM WETLANDS UNLESS THE IMPACT TO THE WETLAND COMPLIES WITH THE REQUIREMENTS OF SECTION 22, [MINN. R. 700] 18.10 PERMITTEES MUST DESIGN BASINS USING AN IMPERMEABLE LINER IF LOCATED WITHIN ACTIVE KARST TERRAIN, [MINN. R. 700]

19.1 REGIONAL WET SEDIMENTATION BASINS, IMINN, R, 70901

20.2 PERMITTEES MUST KEEP THE SWPPP, INCLUDING ALL CHANGES TO IT, AND INSPECTIONS AND MAINTENANCE RECORDS AT THE SITE DURING NORMAY WORKING HOURS BY PERMITTEES WHO HAVE OPERATIONAL CONTROL OF THAT PORTION OF THE SITE, J

21.2 PERMITTEES MUST ENSURE ALL OF THE FOLLOWINS INDIVIDUALS 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 THIS 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, ONE OF THESE INDIVIDUALS MUST BE AVAILABLE FOR AN ONSITE INSPECTION WITHIN 72 HOURS UPON REQUEST BY THE MPCA.

HOURS OF AN HEAD TO SUPERVISING THE INSTALLATION, MAINTENANCE AND REPAIR OF BMPS, [MINN, R, 7090]
21.3 PERMITTEES MUST ENSURE INDIVIDUALS IDENTIFIED IN SECTION 21 RECEIVE TRAINING FROM LOCAL, STATE, FEDERAL
AGENCIES, PROFESSIONAL ORGANIZATIONS, OR OTHER ENTITIES WITH EXPERTISE IN ERGOIND PREVENTION, SEDIMENT
CONTROL, PERMARENT STORNWATER TREATMENT AND THE MINNESOTA PROESSOS CONSTRUCTION STORNWATER PERMIT
CONTROL, PERMARENT STORNWATER TREATMENT AND THE MINNESOTA PROESSOS CONSTRUCTION STORNWATER PERMIT
FERMITTEES MUST ENSURE THESE INDIVIDUALS AFTENDA A REFRESHER-TRAINING COURSE EVERY THEE (8) YEARS, MINN, R.

23.1 ADDITIONAL REQUIREMENTS FOR DISCHARGES TO SPECIAL (PROHIBITED, RESTRICTED, OTHER) AND IMPARIED WATERS.

23.6 DISCHARGES TO THE TROUT STREAMS (OTHER SPECIAL WATER) LISTED IN MINN. R. 6284.0050, SUBP. 4 MUST INCORPORATE THE BMPS OUTLINED IN ITEMS 23.9, 23.10, 23.11, AND 23.12, IMINN.R.6284,0050, SUBP. 4) THE BRIFFS OF LIGHTED IN HERMS 263, 25.11, AND 23.12, ININKNASS, AUGUS, SUPP. 4]

2.3.9 PERMITTEES MUST IMMEDIATE! INITIATE STRAILIZATION OF EXPOSED SOIL AREAS, AS DESCRIBED IN ITEM 8.4 AND
COMPLETE STRAILIZATION WITHIN SEVEN (7) CALENDAR DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE
SITE TEMPORATIVY OF PERMANENTLY CEASES, IMMIN, R. 7030]
23.10 PERMITTEES MUST PROVIDE A TEMPORARY SEDIMENT BASIN AS DESCRIBED IN SECTION 14 FOR COMMON DRAINAGE
LOCATIONS THAT SERVE AN AREA WITH FIVE (5) OR MORE ACRES DISTURBED AT ONE TIME, [MINN, R. 7030]

LOCATIONS THAT SERVE AN AREA WITH FIVE (S) OR MOSE, A PRESIDENT URBED AND SET AND IN THE OWN COMPANIES.

2.214 FERRITTEES BUILDT INCLUDE AN UNDISTRUBED BUFFER FOR SEY OF FOR THE STATE AND WITH AN OWN COMPANIES.

WATER (NOT INCLUDING TREUTARES) AND MUST MAINTAIN THE BUFFER FORE AT ALL TIMES, BOTH DURING COST, BUTCHING CO

FÖLLÖVININ MEASURES, IN ÖRDER OF PREFERENCE: 3. PROVIDES STORMATER (INFILTRATION OR OTHER VOLLIME REDUCTION PRACTICES AS DESCRIBED IN ITEM 15,4 AND 15,5, TO REDUCE RUNOFF, INFIL FRATION SYSTEMS MUST DISCHARGE ALL STORMWATER ROUTED TO THE SYSTEM NITHIN 24 HOURS, PROVIDE STORMWATER FILTRATION AS DESCRIBED IN SECTION 17, FILTRATION SYSTEMS MUST DISCHARGE ALL. TORMWATER ROUTED TO THE SYSTEM WITHIN 24 HOURS

, MINIMIZE THE DISCHARGE FROM CONNECTED IMPERVIOUS SURFACED BY DISCHARGING TO VEGETATED AREAS, OR GRASS SWALES, AND THROUGH THE USE OF NON-STRUCTURAL CONTROLS. OF PONDING IS USED, THE DESIGN MUST INCLUDE AN APPROPRIATE COMBINATION OF MEASURES SUCH AS SHADING, OF PONDING IS USED, THE DESIGN MUST INCLUDE AN APPROPRIATE COMBINATION OF MEASURES SUCH AS SHADING, VEGETATED SWALE DIS

OTHER METHODS THAT MINIMIZE ANY INCREASE IN THE TEMPERATURE OF THE TROUT STREAM, [MINN. R. 7080]

24.2 IF THE MPCA DETERMINES THAT AN INDIVIDUAL PERMIT WOULD MORE APPROPRIATELY REGULATE THE CONSTRUCTION ACTIVITY, THE MPCA MAY REQUIRE AN INDIVIDUAL PERMIT TO CONTINUE THE CONSTRUCTION ACTIVITY, COYERAGE UNDER THIS GENERAL PERMIT WILL PERMIT WIL 24.3 IF THE PERMITTEE CANNOT MEET THE TERMS AND CONDITIONS OF THIS GENERAL PERMIT, AN OWNER MAY REQUEST J INDIVIDUAL PERMIT, IN ACCORDANCE WITH MINN. R, 7601,0210 SUBP. 6; [MINN. R, 7601,6210, SUBP. 6] 24.4 ANY INTERESTED PERSON MAY PETITION THE MPCA TO REQUIRE AN INDIVIDUAL NPDES/SDS PERMIT IN ACCORDANCE WITH 40 CFR 122,28(B)(3), [40 CFR 122,28(B)(3)]

THIN 9U OFN 12L28[8](3), [40 OFN 12L28[8](3)]
24.5 PERMITTEES MUST HAKE THE SWPC LICLIOING ALL INSPECTION REPORTS, MAINTENANCE RECORDS, TRAINING RECORDS AND OTHER INFORMATION REQUIRED BY THIS PERMIT, AVAILABLE TO FEDERAL, STATE, AND LOCAL, OFFICIALS WITHIN THREE (3) DAYS UPON REQUEST FOR THE DURATION OF THE PERMIT AND FOR THREE (3) YEARS FOLLOWING THE NOT, IMINN. R, 7090]

24.6 PERMITTEES MAY NOT ASSIGN OR TRANSFER THIS PERMIT EXCEPT WHEN THE TRANSFER OCCURS IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF ITEM 3.7 AND 3.8, MINN, R, 7090I THE APPLICABLE REQUIREMENTS OF ITEM AT AND 3.8, MINN. R. 7090]

24.7 NOTHING IN THIS PERMIT MUST BE CONSTRUED TO RELIEVE THE PERMITTEES FROM CIVIL OR CRIMINAL PENALTIES FOR NONCOMPLIANCE WITH THE TERMS AND CONDITIONS PROVIDED HEREIN. NOTHING IN THIS PERMIT MUST BE CONSTRUED TO PRECLUDE THE INITIATION OF ANY LEGAL ACTION OR RELIEVE THE PERMITTEES FORM MAY RESPONSIBILITIES, LOR PENALTIES TO WHICH THE PERMITTEES ISSURED TO ANY DESPONSIBILITIES, LOR MAY BE SUBJECT TO UNDER SECTION 31 OF THE CLEAN WATER ACT AND MINN. STAT. SECT. 115 AND THE AS AMENDED, PERMITTEES ARE NOT LABLE FOR PERMIT REQUIREMENTS FOR ACTIVITIES OCCURRING ON THOSE PORTIONS OF A SITE WHERE THE PERMIT HAS BEEN TRANSPERRED TO ANOTHER PARTY AS REQUIRED IN ITEM 3.7 OF THE PERMITTES ARE NOULIRED IN SECTION. A MINN. STAT.

24.8 THE PROVISIONS OF THIS PERMIT ARE SEVERABLE. IF ANY PROVISION OF THIS PERMIT OR THE APPLICATION OF ANY PROVISION OF THIS PERMIT TO ANY CIRCUMSTANCES IS RELD INVALID. THE APPLICATION OF SUCH PROVISION TO OTHER CIRCUMSTANCES, AND THE REWAMNORE OF THIS PERMIT MUST NOT BE AFFECTED THEREBY, MINN. R. 7990] 24.9 THE PERMITTEES MUST COMPLY WITH THE PROVISIONS OF MINN, R, 7001,0150, SUBP, 3 AND MINN, R, 7001,1090, SUBP, 1(A), 1(B), 1(J), 1(J), 1(J), 1(K), AND 1(L), (MINN, R, 7090)

100, 107, 107, 107, 107, 107, 108, AND 102, [MINN, R. 7990]
24.10 THE PERMITTIES MUST ALLOW ACCESS AS PROVIDED IN 40 CFR 122.41(I) AND MINN, STAT, SECT. 115.04, THE PERMITTIES MUST ALLOW ACCESS AS PROVIDED IN 40 CFR 122.41(I) AND MINN, STAT, SECT. 115.04, THE PERMITTIES MOST THE PURPOSE OF
PLOWE

SUITE 110 INO LAKES, MN 5501

MQA CHECK BY JOB NO: DATE: 20-1933 10-12-2

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Ш VERGREEN CE

SHEET

Ш

LATITUDE: 45,249

DEVELOPER

TMARER VALLEY DEVELOPMENT

OUTS DRIVE, SUIT

CONTACT NAME: TIM LANG
CONTACT PHONE: 763-780-9090
CONTACT E-MAIL: T.LANG1959@GMAIL.COM

NARRATIVE - PERMANENT STORMWATER TREATMENT SYSTEMS THE PROJECT CONSISTS OF THE CONSTRUCTION OF SINGLE FAMILY LOTS WITH ADJACENT PUBLIC STREETS.

PERMANENT STORMYATER MANAGEMENT TREATMENT SYSTEMS PER MPCA RULES, CITY OF HAM LAKE, AND COON CREEK WATERSHED DISTRICT ARE REQUIRED FOR THIS PROJECT. FEATURES INCLUDE SEVERAL NURP PONDS AND INFLITATION BASINS. SEE STORMWATER DRAINAGE REPORT FOR FURHTER DISCUSSION.

SITE IMPERVIOUS AREAS

CONSTRUCTION	CONSTRUCTION
75.40	ACRES
0.67 ACRES	8.81 ACRES
74.73 ACRES	· 66.59 ACRES
	75.40 0.67 ACRES

TOTAL DISTURBED AREA

SITE MAP W/ EXISTING AND FINAL GRADES AND DESIGN CALCULATIONS STORMWATER DRAINAGE REPORT" FOR EXISTING AND PROPOSED AREA MAPS, TID DRAINAGE AREA BOUNDARIES, DIRECTIONS OF FLOW, AND DISCHARGE POINTS LE STORMWATER LEAVES THE SITE.

RECEIVING WATERS WITHIN ONE MILE

NAME OF WATER BODY	TYPE OF WATER BODY	SPECIAL WATER	IMPAIRED WATER
COON CREEK	CREEK	NO	YES
HAM LAKE	LAKE	NO	YES
PRIVATE DITCHES	DITCH	ND	NO

BUFFER TO SURFACE WATER

YES NO NA THE SURFACE WATER PRESERVED?

THE SURFACE WATER PRESERVEDY

NOTE: NATURAL BUFFERS ARE NOT REQUIRED ADJACENT TO ROAD DITCHES,

JÜDĪCĪGAL DITCHES, COUNTY DITCHES, STORMWATER CONVEYANCE CHANNELS,

STORM DRAIN INLETS, AND SEDIMENT BASINS.

A) THERE ARE NUMEROUS WETLANDS ON THE SITE FROM WHICH A 50-FT NATURAL BUFFER CANNOT BE PRESERVED. REDUNDANT SEDIMENT CONTROL MEASURES ARE PROVIDED IN THOSE LOCATIONS.

TEMPORARY SEDIMENTATION BASINS

THE RUNOFF BEFORE IT LEAVES THE CONSTRUCTION SITE OF ENTERS

A) BECAUSE THIS SITE IS WITHIN ONE (1) MILE OF AN IMPAIRED WATER, THE REQUIREMENT BECOMES FIVE (5) ACRES. THE CONTRACTOR WILL PROVIDE TEMPORARY SEDIMENTATION BASINS IF FIVE (5) OF MORE ACRES OF DISTURBED SOIL DRAIN TO A COMMON LOCATION.

INFILTRATION FEASIBILITY

ARE THERE ANY INFILTRATION RESTRICTIONS FOR THE SITE (SEE 16.14
YES NO N/A THROUGH 15.217

A) THE SITE HAS A HIGH SEASONAL WATER TABLE SO INFILTRATION IS NOT FEASIBLE IN ALL LOCATIONS.

ADDITIONAL STORMWATER MITIGATION MEASURES

ARE THERE ANY STORMWATER MITIGATION MEASURES PER:
YES NO . ENVIRONMENTAL REVIEW DOCUMENT?

- ARCHAEOLOGICAL REVIEW? OTHER LOCAL, STATE OR FEDERAL REVIEW?

OTHER LOUAL, STATE ON FEDERAL REVIEWY
 IF YES TO ANY OF THE ABOVE, DESCRIBE THE MITIGATION MEASURES. FOR PURPOSES OF THIS PERMIT, MITIGATION MEASURES MEANS ACTIONS
 MICESSARY TO AVIOD, MINIMARY CO, MITIGATE FOR IMPACTS RELATED TO EROSION PREVENTION, SEDIMENT CONTROL, THE PERMANENT STORMWATER TREATMENT SYSTEM, POLLUTION PREVENTION MANAGEMENT MEASURES AND DISCHARGES ASSOCIATED WITH THE PROJECT'S CONSTRUCTION ACTIVITY, MANUAL 9 7001.

LONG TERM OPERATION AND MAINTENANCE OF PERMANENT STORMWATER FACILITIES

REVEGETATION SPECIFICATIONS

ITEM		MNDOT SPECIFICATION/NOTES		
002	-	3878		
SEED "		3876		
FOR TURF ESTA	ABLISHMENT			
CO	MMERCIAL TURF	MNDOT MIX 25-131 (220 LBS/ACRE)		
RE	SIDENTIAL TURF	MNDOT MIX 25-131 (120 LBS/ACRE)		
TEMPORARY	FALL COVER	MNDOT MIX 21-112 (100 LBS/ACRE)		
	SPRING/SUMMER	MNDOT MIX 21-111 (100 LBS/ACRE)		
SOIL	BUILDING COVER	MNDOT MIX 21-113 (110 LBS/AGRE)		
1	-2 YEARS COVER	MNDOT MIX 22-111 (30,5 LBS/ACRE)		
2	-5 YEARS COVER	MNDOT MIX 22-112 (40 LBS/ACRE)		
MULCH		3882 (TYPE 1 - DISC ANCHORED)		
FERTILIZER		3881		
WOOD FIBER BLAN	IKET	3885 (CATEGORY 0)		

* MOW A MINIMUM OF: RESIDENTIAL TURF - ONCE PER 2 WEEKS COMMERCIAL TURF - ONCE PER 4 WEEKS

** SEEDED AREAS SHALL BE EITHER MULCHED OR COVERED BY FIBROUS BLANKETS TO PROTECT SEEDS AND LIMIT EROSION.

QUANTITIES - ESTIMATED QUANTITIES FOR EROSION AND SEDIMENT CONTROL MEASURES

TYPE	QTY	UNIT
SILT FENCE		LINEAR FEET
RIP-RAP W. GEO-FABRIC		CUBIC YARDS
TURF REINFORCEMENT MAT (ENKAMAT)		SQUARE YARDS
SEED & MULCH (GENERAL)		ACRE
ROCK CONSTRUCTION ENTRANCE		EACH
SOD		SQUARE YARDS
EROSION CONTROL BLANKET		SQUARE YARDS
INLET PROTECTION '		EACH

NARRATIVE - TIMING FOR INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES

RRATIVE - TIMING FOR INSTALLATION OF EROSION AND SEDIMENT CONT

A COPY OF THE APPROVED EROSION AND SEMENT CONTROL PLAN AND SWEPP

MUST SE AVAILABLE ON THE PROJECT SITE AT ALL TIMES.

2.1 HOOD THE APPROVED EROSION AND SEROWN ON PLAN.

2.1 ADDITIONAL SILT FENCE BAY BE NECESSARY IF LOCAL CONDITIONS REQUIRE.

2.2 THE CONTRACTOR SHALL INSTALL MAINTAIN SITE PRICE, INCLUDING THE REMOVAL OF ON ACCUMULATED SEGMENT, THROUGH COMPLETION OF BUILDING CONSTRUCTION

3. CONTRACTOR SHALL INSTALL THE ROCK CONSTRUCTION STRUCTION FRANCE SHALL REPORT OF THE CONTRACTOR SHALL INSTALL THE ROCK CONSTRUCTION TRAFFIC ENTERS ONTO EXISTING PAUL SILE OF THE PROVINCY OF A SHALL SHALL THE PROVINCY OF THE THROUGH SHALL S

CEASES.

CONTRACTOR TO PROTECT PERMANENT STORWINATER MANAGEMENT FACILITIES FROM CONSTRUCTION RUN-OFF.

1. IN PILITATION SYSTEMS MUST NOT BE EXCAVATED TO FINAL GRADE UNTIL THE BLOWN FROM THE PROPERTY OF THE CEASES.

FRACTOR TO PROTECT PERMANENT STORMWATER MANAGEMENT FACILITIES

PHASE IP FEMIT REQUIREMENTS.

CONTRACTOR TO PROVIDE ADDITIONAL SILT FENCE, BIOROLLS, EROSION CONTROL
BLANKET, OR OTHER APPROVED EQUAL FOR ANY SLOPES THAT APPEAR TO BE

PACING
ONTRACTOR TO STABILIZE SOIL STOCKPILES, STABILIZATION SHALL BE INITIATED
IMMEDIATELY
11. CONTRACTOR SHALL FINAL GRADE SWALE AREAS UPON STABILIZATION OF UPSTREAM
ASEAS

AREAS.

CONTRACTOR SHALL BE RESPONSIBLE TO SWEEP/SCRAPE ADJACENT STREETS WHEN MATERIALS OR DEBRIS HAVE WASHED/FLOWED ONTO ADJACENT STREETS OR AS DIRECTED BY OTITY

10. COORDINATE SMALL DILLIES INSTALLATIONS (GAS, PHONE, ELECTRIC, GAS, ETC.)
AFTER CURB A GUTTER INSTALLATION.

LIST OF IMPAIRED WATERS:

COON CREEK:

SOOTO TUBELLA:
THIS CREEK HAS AN EPA-APPROVED IMPAIRMENT FOR BENTHIC
MACROINVERTEBRATE BIOASSESSMENTS: ESCHERICHIA COLJ. THESE
MACROINVERTEBRATE DIOASSESSMENTS: ESCHERICHIA COLJ. THESE
MACROINVERTEBRATE DIOASSESSMENTS: ESCHERICHIA COLJ. THESE
MACROINVERTEBRATE DIOASSESSMENTS: ESCHERICHIA COLD
THE TERRA AND REGULTRE THE ADDITIONAL BEST MANAGEMENT PRACTICES
FOUND IN TERRA 23 & 8 2.3. D.

THIS CREEK HAS AN EPA-APPROVED IMPAIRMENT FOR MERCURY IN FISH TISSUE. THESE IMPAIRMENTS ARE CONSIDERED TO BE CONSTRUCTION RELATED PARAMETERS AND REQUIRE THE ADDITIONAL BEST MANAGEMENT PRACTICES FOUND IN ITEMS 23,9 8 23.10.

IF DEWATERING IS REQUIRED, PROVIDE WELL-FIELD LOCATION, RATES, DISCHARGE LOCATION, SCHEDULE AND QUANTITIES TO

CCWD PRIOR TO ANY DEWATERING.

"BEST MANAGEMENT PRACTICES (BMPS)" MEANS THE MOST EFFECTIVE AND PRACTICASLE MEANS OF EROSION PREVENTION AND SEDMENT CONTROL, AND WATER GUALITY MANAGEMENT PRACTICES THAT ARE THE MOST FERETURE AND PRACTICABLE MEANS OF TO CONTROL, PREVENT, AND MINIMIZE DEGRADATION OF SURFACE WATER, INCLUDING AVOIDANCE OF IMPACTS, CONSTRUCTION-PRASING, MINIMIZION THE LEGITH OF TIME SOIL AREAS, ARE EXPOSED, PROHIBITIONS, POLUTION PREVENTION THROUGH GOOD HOUSEKEEPING, AND OTHER MANAGEMENT PRACTICES PUBLISHED BY STATE OR DESIGNATED AREAS/AND FURNISHED BY STATE OR DESIGNATED AREA-WIDE PLANNING AGENCIES, MINN. R. 7090]

POUSEKEEPINA, AND OT THEN MANUSCHEM! PARCITICES PROBERIES BY STATE OR DEBIGNATED RACEATING PARCITICES AND THE MEMORY ACCOUNTS AND THE MEMORY
(NIGHT). IT. JUSTI "DEWATERING" MEANS THE REMOVAL OF SURFACE OR GROUND WATER TO DRY ANDIOR SOLIDIPY A CONSTRUCTION SITE TO ENABLE CONSTRUCTION ACTIVITY. DEWATERING MAY REQUIRE A MINISECTION SOLITION OF THE STATE OF THE STATE RESOURCES WHITE APPROPRIATION PERNIT AND, IF DEWATERING WATER IS CONTAMINATED, DISCHARGE OF SUCH WATER MAY REQUIRE AN INDIVIDUAL MEAN APPOSSISOS PERNIT, MININE, TO SITE

EROSION PREVENTION MEANS MEASURES EMPLOYED TO PREVENT EROSION SUCH AS SOIL STABILIZATION PRACTICES, PERMANENT COVER OR CONSTRUCTION PRASTING, [MINN R. 7090]

R. 7090)

"GENERAL CONTRACTOR" MEANS THE PARTY WHO SIGNS THE CONSTRUCTION CONTRACT
WITH THE OWNER TO CONSTRUCT THE ENTIRE PROJECT DESCRIBED IN THE FINAL PLANS
AND SPECIFICATIONS. WHERE THE CONSTRUCTION PROJECT INVOLVES MORE THAN ONE
CONTRACTOR, THE GENERAL CONTRACTOR IS THE PARTY RESPONSIBLE FOR MANAGINE
THE ENTIRE PROJECT ON BEHALE OF THE COWNER IN SOME CASES, THE OWNER IS THE
GENERAL CONTRACTOR. IN THESE CASES, THE OWNER SIGNS THE PERMIT APPLICATION
AS THE OPERATOR AND SECOMES THE SOLE PERMITTEE, MANN R. 7090]

"GROUNDWATER" MEANS THE WATER CONTAINED BLOWT HE SURPACE OF THE EARTH IN THE SATURATED ZONE RICLUDING, WITHOUT LIMITATION, ALL WATERS WHETHER UNDER CONFINED, UN REACHED CONDITIONS, IN SEAS SURFACE UNCONSOLIDATED SEDMENT OR RESOLITH, OR IN ROCK FORMATIONS DEEPER UNDERGROUND, MINN, R. 1788)

THE TIME OF SALE, IMINN, R, 7090]

'INFEASIBLE' MEANS NOT TECHNOLOGICALLY POSSIBLE OR NOT ECONOMICALLY PRACTICABLE AND ACHIEVABLE IN LIGHT OF THE BEST INDUSTRY PRACTICES, (MINN. R.

TORGI
"INITIATED IMMEDIATEL"* MEANS TAXING AN ACTION TO COMMENCE SOIL STABILIZATION
AS SOON AS PRACTICABLE, BUT NO LATER THAN THE END OF THE WORK DAY, FOLLOWING
THE DAY WHEN THE LAND. DISTURBING ACTIVITIES TEMPORARILY OF PERMANENTLY
CEASE, IF THE PERMITTEES KNOW THAT CONSTRUCTION WORK ON THAT FORTION OF THE
SITE WILL BE TEMPORARILY CEASED FOR 14 OR MORE ADDITIONAL CALENDAR DAYS OR 7
CALENDAR DAY'S WHERE ITEM 239 APPLIES. PERMITTEES GAN INITIATE STABILIZATION BY: A. PREPPING THE SOIL FOR VEGETATIVE OR NON-VEGETATIVE STABILIZATION: OR

C. SEEDING OR PLANTING THE EXPOSED AREA: OR

D, STARTING ANY OF THE ACTIVITIES IN A - C ON A PORTION OF THE AREA TO BE STABILIZED, BUT NOT ON THE ENTIRE AREA; OR

E. FINALIZING ARRANGEMENTS TO HAVE STABILIZATION PRODUCT FULLY INSTALLED IN COMPLIANCE WITH THE APPLICABLE

DEADLINE FOR COMPLETING STABILIZATION. [MINN. R. 7090] LE-BALINE FUNE LUMPLE LINIS STABILLATION, [MINN. R. 7090]

"IMPERVIOUS SURFACE: MEASS A CONSTRUCTED HARD SURFACE THAT EITHER PREVENTS OR RETARDS THE ENTRY OF WATER INTO THE SOIL AND CAUSES WATER TO RUN OFF THE SURFACE IN DEPARTED AND AT AN INCREASED RATE OF FLOY THAN PRIDE TO DEVELOPMENT, EXAMPLES INCLUDE ROOPTOPS, SIDIEWALKS, DRIVEWAYS, PARKING LOTS, AND CONCINETT, ASPHALT, OR GRAVEL ROADS, SRIDOES OVER SURFACE WATERS ARE CONSIDERED IMPERVIOUS SURFACES, (MINN. R. 7090]

CONSIDERED MEREVIOUS SURFACES, (MINN. R. 7090)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)' MEANS THE PROGRAM
FOR ISSUING, MODIFYING, REVOKING, REISSUING, TERMINATING, MOMITORING, AND
ENFORCING PERMIT SUNDER THE CLEAN WATER ANT, AS AMENDED (30 J.S.C. 1261 ET SED.
SECTION 1942 AND 40 CFR PARTS 122, 123, 124 AND 450), (MINN. R. 7090)

"NATURAL BUFFER" MEANS AN AREA OF INDISTURBED COVER SURROUNDING SURFACE
WATERS WITHIN YHICH CONSTRUCTION ACTIVITIES ARE RESTRICTED, NATURAL BUFFER

NCLUDES THE VEGETATION, EXPOSED ROCK, OR BARREN GROUND THAT EXISTS PRIOR TO COMMENCEMENT OF EARTH-DISTURBING ACTIVITIES, [MINN: R. 7080]

"NOTICE OF TERMINATION (NOT)" MEANS THE FORM (ELECTRONIC OR PAPER) REQUIRED FOR TERMINATING COVERAGE UNDER THE CONSTRUCTION GENERAL PERMIT, MINN, R.

OPERATOR MEANS THE PERSON (USUALLY THE GENERAL CONTRACTOR), FIRM, OF OVERNMENTAL AGENCY, OR OTHER ENTITY DESIGNATED BY THE OWNER WHEN THE OWNER WHEN THE ADD TO DAY OPERATIONAL CONTROL AND/OR THE ABILITY TO MODIFY PROJECT FLANS AND SPECIFICATIONS RELATED TO THE SWPPP. THE PERMIT APPLICATION MUST LIST THE OPERATOR AS A PERMITTEE. SUBCONTRACTORS HIRED BY AND UNDER SUPERVISION OF THE GENERAL CONTRACTOR ARE NOT OPERATORS, (MINN. R. 70).

THE GENERAL CONTRACTOR ARE NOT OPERATORS, (MINN. R. 7690)
"OWNER" MEANS THE PERSON, FIRM, GOVERNMENTAL AGENCY, OR OTHER ENTITY
POSSESSING THE TITLE OF THE LAND ON WHICH THE CONSTRUCTION ACTIVITIES WILL
OCCUP OR, IF THE CONSTRUCTION ACTIVITY IS FOR A LEASE, EASIEMENT, OR MINERAL
RIGHTS LICENSE HOLDER, THE PARTY OR KNOWIDIAL IDENTIFIED AS THE LEASE,
EASIEMENT OR MINERAL RIGHTS LICENSE HOLDER; OR THE CONTRACTING GOVERNMENT
AGENCY RESPONSIBLE FOR THE CONSTRUCTION ACTIVITY, (MINN. R. 7690)

MOMENT INSERTANTISHE, DUTK THE CONSTITUCTION ACTIVITY, (MINN, R. 7080)

FERMANENT COVER* MEANS SURFACE TYPES THAT WILL PREVENT SOLF FALURE UNDER EROSIVE COMDITIONS. EXAMPLE SINCLIDE: GRAVEL, CONCRETE, PERENNIAL, COVER, OR OTHER LANDSCAPE DIMATERIA. THAT WILL PERMANENTLY ARREST SOL EROSION. PERMITTESS MUST ESTABLISH A UNFORM PERENNIAL VEGETATIVE COVER (E., EVENLY DISTRIBUTED, WITHOUT LARGE BARE AREAS) WITH A DESISTIVE OF PERICENT OF THE NATIVE BACKGROUND VEGETATIVE COVER ON ALL AREAS NOT COVERED BY PERMANENT STRUCTURES, OR EDUMALENT PERMANENT STRUCTURES, WOOD FIRE PLANKET, MUST.

THIS PERMIT, IMAIN, K. 1993 PROLECTED AND ACTIVITY PLANNED AND/OR CONDUCTED UNDER A PARTICULAR PERMIT. THE PROJECT OCCURS ON THE SITE OR SITES DESCRIBED IN THE PERMIT APPLICATION. THE SWIPPP AND IN THE ASSOCIATED PLANS, SPECIFICATIONS AND CONTRACT DOCUMENTS, IMAIN, R. 7993

"PUBLIC WATERS' MEANS ALL WATER BASINS AND WATERCOURSES DESCRIBED IN MINN. STAT. SECT. 1036_005 SUBP. 15. [MINN. R. 7090]

"SEDIMENT CONTROL" MEANS METHODS EMPLOYED TO PREVENT SUSPENDED SEDIMENT IN STORMWATER FROM LEAVING THE SITE (E.G. SILT FENCES, COMPOST LOGS AND STORM DRAIN INLET PROTECTION). (MINN. R. 7090)

DRAIN INLET PROTECTION), [MINN. R. 7059]

"STABILLES: "STABILLED": "STRBULLED TON MEANS THE EXPOSED GROUND SURFACE HAS BEEN COVERED BY APPROPRIATE MATERIALS SUCH AS MILLCH, STAKED SOD, RIPPAR, EROSION CONTRO. BLANKET, MATO SO NOTHER MATERIAL THAT PREVENTS EROSION FROM COCURRING. GRASS SEEDING, ADRIGULTURAL CROP SEEDING OR OTHER SEEDING ALONE IS NOT STABLUATION. MULCH MATERIALS MUST ACHIEVE APPROXIMATELY SP DEROIS OR GROUND COVERAGE (TYPICALLY 2 TOWARCE), [MINN. R. 7069]

"STORMMATER MEANS PRECIPITATION RUINOFF, STORMMATER RUNOFF, SNOWMELT RUINOFF, AND ANY OTHER SURFACE RUINOFF AND DRAINAGE, [MINN. R. 7069]

"STEEP SLOPES MEANS SLOPES THAT ARE 13, (Y-H) (3.3.3 PERCENT) OR STEEPER IN GRADE, [MINN. R. 7069]

GRADE, (MINN, R. 7099)

"STORM WATER POLLUTION PREVENTION PLAN (SWIPPP)" MEANS A PLAN FOR STORMWATER DISCHARGE THAT INCLUDES ALL REQUIRED CONTENT UNDER IN SECTION 5 THAT DESCRIBES THE ERGOSION PREVENTION, SEDIMENT CONTROL AND WASTE CONTROL BMPS AND PERMANENT SYSTEMS. (MINN, R. 7090)

BMPS AND PERMANENT STORMWATE HAN EAR THAT THE HAN ITST STEILEMS, MINNEN, P. 1004)
"SURPACE WHITE OR WATERS HEARS ALL STREAMS, LAKES, PONDS, MARSHES,
WETLANDS, RESERVOIRS, SPRINGS, RIVERS, DRAINAGE SYSTEMS, WATERHOWS,
WATERHOUNESS, AND IRRIGATION SYSTEMS WHITE HER NATURAL OR ARTHFICIAL, PUBLIC
OR PRIVATE, EXCEPT THAT SURFACE WHITERS DO NOT INCLIDE STORMWATER
TREATMENT SYSTEMS CONSTRUCTED HOW. THIS PERMIT WORS HAVE
STORMWATER TREATMENT SYSTEMS CONSTRUCTED IN FULL HANDS AND MITCATED IN
ACCORDANCE WHITE SECTION 25 AS DURFACE WHITERS, (MINN. P. 105) MITCATED IN
ACCORDANCE WHITE SECTION 25 AS DURFACE WHITERS, (MINN. P. 105).

ACCOMMANDE THIS PACIFIC PROPERTY OF THE STATE "(AS DEFINED IN MIMS, 18TA, 5ECT, 115.01, SUBP, 22) MEANS ALL STREAMS, LAKES, PONDS, MARSHES, WATERCOURSES, WATERWAYS, WELLS, SPRINGS, RESERVORS, ACQUIFERS, IRRIGATION SYSTEMS, DENIANGE SYSTEMS AND ALL OTHER BODIES OR ACCUMULATIONS OF WATER, SUBFACE OR UNDERGROUND, NATURAL OR ARTIFICIAL, DUBLE OR PRIVATE, WHICH ARE CONTAINED WITHIN, LOW THROUGH, OR BORDER UPON THE STATE OR ANY PORTION THEREOF, IMMN, STAT. 115.01, SUBP, 22] "WATER QUALITY COLLINE" MISS ONE (1) INCH OR TUNOF FEROM THE NET INCREASE IN MPERVIOUS SURFACES GREATED BY THE PROJECT (CALCULATED AS AN INSTANTANEOUS VOLUME), IMM, NR. 7899) VOLUME), [MINN, R. 7090]

VOLUME, MINN. R. 7090)
"YELTAINS: (AS DEFINED IN MINN. R. 7050.0188, SUBP. 1A.B.) MEANS THOSE AREAS THAT ARE INUNDATED OR SATURATED BY SUBFACE WATER OR GROUNDWATER AT A FREQUENCY AND DURATION SUFFICIENT TO SUPPORT, AND UNDER NORMAL CIRCUMSTANCES DO SUPPORT, A PREVALENCE OF VEGETATION TYPICALLY ADAPTED FOR LIFE IN SATURATED SOIL CONDITIONS. WETLANDS GENERALLY INCLUDE SWAMPS. MARSHER, BOGS, AND SIMILAR AREAS, CONSTRUCTED WETLANDS DESIGNED FOR WASTEWATER TREATMENT ARE NOT WATERS OF THE STATE. WETLANDS MUST HAVE THE FOLLOWING ATTRIBUTES:

1. A PREDOMINANCE OF HYDRIC SOILS: AND

1. A PRECOMMANDER OF THING SOURFACE WATER OR GROUNDWATER AT A FREQUENCY AND DURATION SUFFICIENT TO SUPPORT A PREVALENCE OF HYDROPHYTIC VEGETATION TYPICALLY ADAPTED FOR LIFE IN A SATURATED SOIL CONDITION; AND

UNDER NORMAL CIRCUMSTANCES SUPPORT A PREVALENCE OF SUCH VEGETATION. [MINN. R 7050,0186, SUBP. 1A.B]

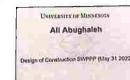
MAP OF SURFACE WATERS



DOCUMENTATION OF TRAINED INDIVIDUALS

THE PERMANENT STORMWATER MANAGEMENT FACILITIES WILL BE MAIN PERPETUITY BY THE CITY OF HAM LAKE.

INDIVIDUAL WHO PREPARED THE SWPPI ALI ABUGHAZLEH
PLOWE ENGINEERING, INC.
6776 LAKE DRIVE
LINO LAKES MN 55014
(651) 351-8235
ALI@plowe.com



Erosion and Stormwater Management

INDMIDUAUS) OVERSEEING IMPLEMENTATION OF, REVISING AND/OR AMENDING THE SWPPP AND INDIVIDUALS PERFORMING INSPECTIONS FOR THE PROJECT. ONE OF THESE INDIVIDUALS MIST BE AVAILABLE FOR AN ONSITE INSPECTION WITHIN 72 HOURS UPON REQUEST BY THE MPCA. [MINN. R. 7090]

INDIVIDUAL(S) PERFORMING OR SUPERVISING THE INSTALLATION, MAINTENANCE A REPAIR OF BMPS. [MINN. R. 7000] NAME COMPANY

SHEET

ESTATE

RGREEN

EVE

Z.

드

C4.2

PLOWE

6776 LAKE DRIVE SUITE 110 LINO LAKES, MN 55014

PHONE: (651) 361-8210 FAX: (651) 381-8701 DRAWN BY: CHECK B

JOB NO: DATE: 20-1933 10-12-20

LARLES W. PLOWE

CITY OF HAM LAKE PLANNING COMMISSION REQUEST APPLICATION INSPECTION REPORT

MTG DATE: April 26, 2021

INSPECTION ISSUED TO: Erin Dixson
APPLICANT/CONTACT: Classic Construction, Curt Strandlund or Kristin Erickson
TELEPHONE NUMBER:763-434-8870 (office) 763-434-7120 (Kristin)
BUSINESS/PLAT NAME: Growing Generations Daycare
ADDRESS/LOCATION OF INSPECTION: 13644 Radisson Rd, L9B2 Bunker Meadows
APPLICATION FOR: Commercial Site Plan
RECOMMENDATION:
DATE:
PLANNING COMMISSIONER SIGNATURE:



PLANNING REQUEST

CITY OF HAM LAKE

15544 Central Avenue NE Ham Lake, MN 55304

Phone (763) 434-9555 Fax (763) 235-1697

Phone	(103) 434-3330 Tax (100) 200 100.
Date of Application 315 202	Date of Receipt 3-15-2021
	Receipt # 89419
Meeting Appearance Dates: Planning Commission4_24	
Please check request(s):	
Metes & Bounds Conveyance	Commercial Building Permit
Sketch Plan	Certificate of Occupancy
Preliminary Plat Approval*	Home Occupation Permit
Final Plat Approval	Conditional Use Permit (New)*
Rezoning*	Conditional Use Permit (Renewal)
Private Kennel License*	X Other CUMM SITE DIAY
*NOTE: Advisory Signage is required for land u	se alterations and future road connections. This
	ring. Such fees shall be deducted from deposit.
Development/Business Name:	ving hereputions
Address/Location of property: Bunto	e Jiak Blunne & Runssu
Legal Description of property:	Bluck 2 Bunker KD/11
PIN # 33-32.23.31. OOOQ Current Zoning Pub (co.3) Proposed Zoning)	
1101001	care Fucility
Applicant's Name: CIMSSIC COMS	Muchian. Inc. 4th: Kaishin
Business Name: CCI 6-energy	O CONTRUCTOR
Address 1937 16 /	14222 24.
city East Betnep	State MN Zip Code SSOII
Phone 103 434 86 Cell Phone	Fax 103 934
Email address CR Sh D (WC)	ussiconstenction inc. 7/20
You are advised that the 60-day review period	required by Minnesota Statutes Chapter 15.99 does
not begin to run until <u>all</u> of the required items have been received by the City of Ham Lake.	
SIGNATURE KALL IUU	DATE 315/2021
******************	****************
- FOR STAFF USE ONLY -	
ACTION BY: Planning Commission	
	DECDERTY TAYES CURRENT VES NO

At Growing Generations, we believe that quality childcare and educational learning in all age groups depends upon consistent caregiving in a home like atmosphere. Children grow and learn best in a safe environment that provides opportunities to explore, create, and communicate with other children and adults. These groups function independently but cooperatively while following routines appropriate to individual needs. Our program is designed to be inclusive of all children, including those with identified disabilities and special learning developmental needs.

At Growing Generations, children are given the opportunity to explore materials and participate in a variety of experiences. Activities are carefully planned and implemented in an open-classroom setting. Children are free to choose from age-appropriate activities including art, music, language development, pre-math skills, science and nature, and dramatic play.

Learning and playing are not limited to the classroom; children of all ages will participate in the outdoor environment each day. There are opportunities for water play, motor development, and large group activities. The center provides age-appropriate playgrounds with proper equipment. Infants are also taken outside for walks in a stroller or in the arms of a teacher.

Growing Generations will employ up to 30 staff members at full enrollment with an average of 20 staff at any given time throughout the day. Most staff work 8 to 10 hours shifts and leave as children leave to meet state ratios. We will serve up to 120 children in the community on a daily basis. Our age groups consist of 24 Infants, 36 Toddlers, and 60 Preschoolers. Our Hours of operation will be from 6:00am to 6:00pm Monday through Friday.



Office (763) 862-8000 Fax (763) 862-8042

Memorandum

Date:

April 21, 2021

To:

Planning Commissioners

From:

Tom Collins, City Engineer

Subject:

Growing Generations Daycare

Introduction:

The proposed 10,572 square foot building is located on the 3.07-acre Lot 9, Block 2 of the 1998 Planned Unit Development (PUD) plat of Bunker Meadows (parcel ID 33-32-23-31-0006). A 200-scale half-section map, a 200-scale aerial photo and a 400-scale zoning map are attached. The underlying zoning of this parcel is Commercial Development Tier 3 (CD-3).

Discussion:

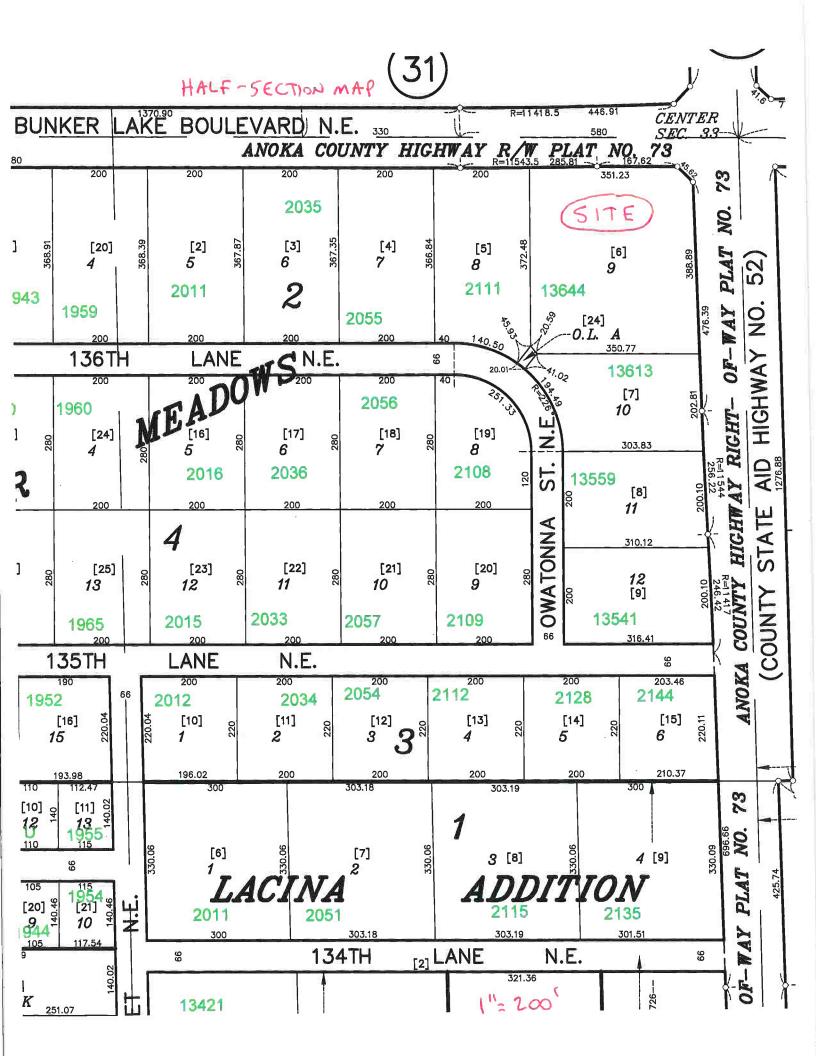
The Certificate of Survey received April 20th, the Title Sheet, Legend, Existing Conditions & Removal Plan, Grading, Drainage, and Erosion Control Plan, Utility Plan, Details & Notes, Stormwater Pollution Prevention Plan and the Turn Lane Plan received April 14th and the Landscape Plan received April 15th address the prior review comments. Per 11-1853 - where property lines are adjacent to residential areas, a planting screen of conifers or opaque fencing is required. The proposed screening to the south and west is shown on the Landscape Plan.

The proposed access to the parcel is off of Radisson Road, which is under the jurisdiction of Anoka County. Per the attached April 16th letter, the Anoka County Transportation Division has approved the plans. A right-of-way permit will need to be obtained prior to construction.

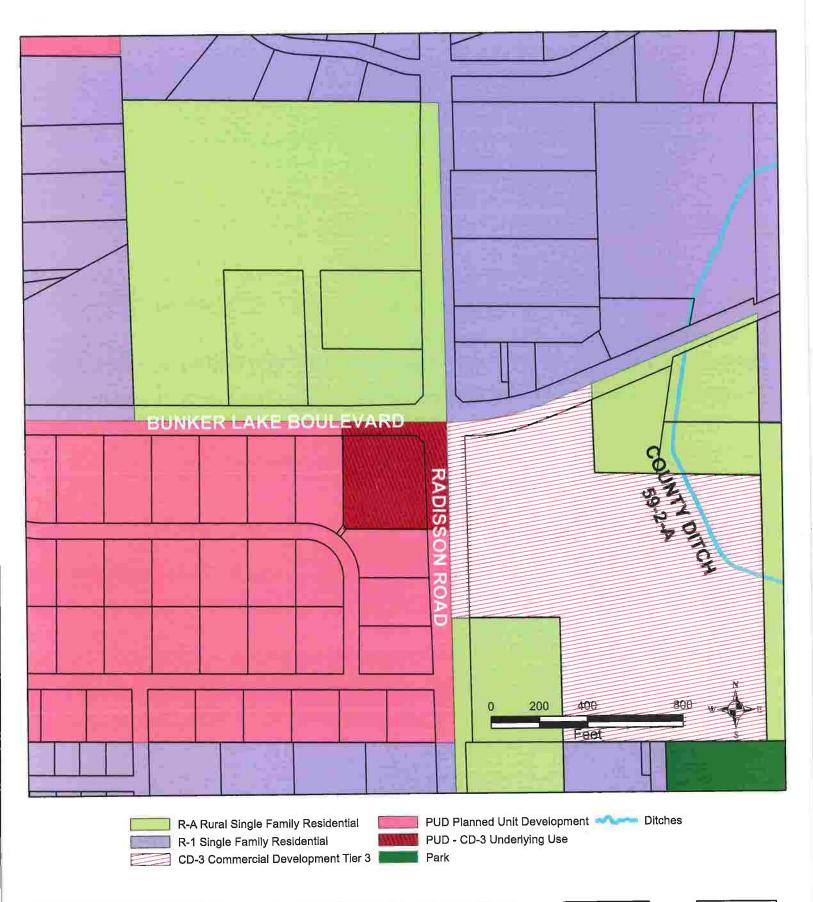
Growing Generations Daycare was approved by the Coon Creek Watershed District (CCWD) Board of Managers at their March 22nd meeting. The April 9th Notice of Permit Application Status is attached. An Operations and Maintenance Agreement for Stormwater Facilities needs to be executed between Growing Generations Daycare and CCWD for on-site stormwater treatment. Grading cannot commence until the CCWD issues a permit.

Recommendation:

It is recommended that the Growing Generations Daycare plans be recommended for approval.







Sheet Title: ZONING MAP

Project:
GROWING GENERATIONS DAYCARE

Drawn By: EMP Date: 4/19/2021

Project No. 2102.037

13635 Johnson Street Ham Lake, MN 55304 Telephone (763) 862-8000 Fax (763) 862-8042



- **E.** Other areas where other than natural wooded vegetation is to be used as ground cover, identifying the ground cover to be used;
- F. Locations, trunk size, height and species of all trees to be planted;
- **G.** Locations where existing natural wooded vegetation will remain undisturbed;
- **H.** All other landscaping features to be used.

11-1850 MINIMUM LANDSCAPING REQUIREMENTS

11-1851 Paved Surfaces All surfaces upon which motor vehicles will be parked or driven, and all areas in which pedestrians will be walking from point to point shall be surfaced with asphalt or concrete, to specifications established by the City's engineer.

11-1852 Ground Cover On any side of a lot which abuts a public road, the area from the road right-of-way to the nearest building side shall be entirely covered with ground cover consisting of pavement, decorative rock bordered with edging, lawn grass intended for regular mowing, mulch, bark, wood chips or other commonly used landscaping ground cover. Shingles, aggregate and clay mixtures such as Class V material, recycled concrete or asphalt, and other non-conventional ground covers shall not be permitted. Loose ground cover shall be installed to a depth of at least three inches. Any area which is covered by landscaping ground cover (not lawn or pavement) shall also include one decorative shrub for each ten square feet of ground cover.

Side yards and rear yards which do not contain existing natural wooded vegetation shall either be covered with ground cover in the manner stated above for front yards, or shall be planted so as to encourage the emergence of natural wooded vegetation, through the planting of tree species expected to reach a height of at least twenty five feet. Areas so prepared shall not be required to have mown lawn areas, but may be allowed to return to a natural state.



11-1853 Tree Plantings Trees which are planted outside of areas intended to return to a natural wooded state shall be of a variety indigenous to the local climate. Deciduous trees shall, when planted, have a trunk size of at least one and one half inches at a height of four feet from ground level. Conifers shall have a height of at least five feet. Tree locations are subject to review and approval of the City in the landscaping plan review process, and while no specific number of trees are required, the following general principles shall be observed;

A. Where property lines are adjacent to residential areas, a planting screen of conifers shall be required, of sufficient size and proximity to provide an intermingled screen within five years;

B. Decorative trees shall be planted along the right of way lines of adjacent public roadways;

C. The use of conifers shall be encouraged and preferred.

D. Whenever possible, an attempt will be made to preserve stands of existing vegetation, particularly treed or wooded areas.

11-1860 Case by Case Evaluation

Recognizing that the City contains a wide variety of commercial land, the landscape approval process shall be on a case by case basis. Where wetlands are present, or where large distances separate a commercial lot from adjacent lands, for example, strict adherence to screening requirements may be unnecessary. Likewise, strict adherence to the remaining provisions of Article 11-1800 may be unnecessary where size, spatial relationships, topography or other physical features render a given landscaping plan aesthetically acceptable, and departures from the strict observance of the elements of Article 11-1800 shall not be considered variances requiring a showing of physical hardship. Conversely, an applicant shall be expected to meet the general spirit of this article in establishing an aesthetically pleasing landscaping plan.

11-1900 <u>ILLICIT DISCHARGES AND CONNECTIONS TO STORM DRAINAGE</u> SYSTEM

The purpose of this ordinance is to provide for the health, safety, and general welfare of the citizens of Ham Lake through the regulation of non-storm water discharges to the storm sewer drainage system to the maximum extent practicable as required by federal and state law. This ordinance establishes methods for controlling the introduction of pollutants into the Municipal Separate Storm Sewer System (MS4) in order to comply with requirements of the National Pollutant Discharge Elimination System (NPDES) permit process. The objectives of this ordinance are:

- To regulate and minimize the contribution of pollutants to the municipal separate storm sewer system (MS4) by stormwater discharges by any user.
- 2. To prohibit Illicit Connections and Discharges to the municipal separate storm sewer system.
- 3. To establish legal authority to carry out all inspection, surveillance and monitoring procedures necessary to ensure compliance with this ordinance.

11-1900.10 **DEFINITIONS**

For the purposes of this Code, the following shall mean:

- a) Authorized Enforcement Agency: employees or designees of the Administrator of the City of Ham Lake designated to enforce this Ordinance.
- b) Best Management Practices (BMPs): schedules of activities, prohibitions of practices, general good house keeping practices, pollution prevention and educational practices, maintenance procedures and other management practices to prevent or reduce the



Anoka County TRANSPORTATION DIVISION

Highway

Joseph J. MacPherson, PE County Engineer

April 16, 2021

Kristin Erickson Classic Construction, Inc. 18542 NE Ulysses Street East Bethel, MN 55011

Re: Growing Generations Daycare Anoka County Plan Approval

Dear Ms. Erickson,

Anoka County has reviewed the Growing Generations Daycare plan and has no further comments. You can contact our permits section at 763-324-3176 to obtain the right of way permit.

Sincerely,

Michelle Pritchard Design Engineer

cc: File (Ham Lake)
Joe MacPherson, ACHD
Jerry Auge, ACHD
Jane Rose, ACHD
Sue Burgmeier, ACHD

I:\Eng\Plan Reviews\Ham Lake\2021\Growing Generations

Daycare\Resubmittal 4-7-21\Approval.docx



NOTICE OF PERMIT APPLICATION STATUS

Project:

Growing Generations Daycare

Date:

April 09, 2021

Applicant:

Classic Construction 18542 Ulysses St NE

East Bethel MN 55011

Permit Application#:

21-028

Purpose:

Construction of a daycare facility, parking lot, and associated

stormwater infrastructure

Location:

SW corner at the intersection of Bunker Lake Blvd and

Radisson Road NE

At their meeting on March 22, 2021 the Board of Managers of the Coon Creek Watershed District **conditionally approved** the above referenced project with 6 conditions and 2 stipulations. **This is NOT a permit.**

Since your last submittal on 3/31/2021, the following 3 conditions remain which must be addressed before permit issuance (please see note below on how to address conditions).

1. Receipt of escrows.

2. Provide proof of recording for O&M Agreement that meets District requirements.

3. TEP approval of the wetland delineation is required.

Please note that there are also 2 stipulations.

Please be advised that **this is NOT a permit**, and that work without a permit is a violation of the terms of the Coon Creek Watershed District Rule 5.1. If you have any questions, please call 763-755-0975.

Sincerely,

Erin Edison

Water Resource Regulation Coordinator

un Edwar

cc:

File 21-028

Ed Matthiesen, Stantec Danielle Tourtillott, Stantec Tom Collins, City of Ham Lake

Note: Please respond to each of these items in writing when resubmitting the revised

plans to the District. Resubmittals must include two hard copies and/or an electronic version sent to permitsubmittals@cooncreekwd.org. *Please submit written responses* below the original typed comments, using extra sheets as necessary, addressing comments from the District. If you have any questions, feel free to contact Erin Edison at (763) 755-0975. Pursuant to Coon Creek rule 7.3 deficiencies must be addressed and resubmitted within 60 days. Failure to so shall be deemed a withdrawal of the permit application.

Growing Generations Daycare PAN 21-028

4/9/2021



To:

Erin Edison, Tim Kelly

From:

Brady Schmitz, Stantec Consulting Services

Inc.

Coon Creek Watershed District

Copy:

Ed Matthiesen, P.E., Stantec Consulting

Services Inc.

PAN: 21-028

Date:

April 9, 2021

Reference: Growing Generations Daycare Update

Exhibits:

1. Construction Plans (9 sheets); by Plowe, dated 03/30/2021, received 03/31/2021.

2. Drainage Report; by Plowe, dated 03/31/2021, received 03/31/2021.

3. Response Letter; by Plowe, dated 03/30/2021, received 03/31/2021.

In Response to the Coon Creek Watershed District "Notice of Permit Application Status" dated March 23, 2021:

1. Receipt of escrows. NO

2. Update construction plans to include the following:

- a. Provide erosion control measures to protect adjacent properties and stormwater ponds from construction activities. Double row of perimeter control at waterbodies/creeks/wetlands with a natural buffer < 50 feet. YES
- b. Provide construction detail for stabilization at the outlets of all storm sewer pipes.
- c. Provide inlet protection at all storm sewer inlets during construction. YES
- 3. Provide statement whether dewatering will be required for the construction of the proposed project. If yes, provide DNR dewatering permit and well-field location, rates, discharge location, schedule and quantities and a note on plans stating dewatering plans must be submitted to the district 7 days prior to activity for review and approval. YES
- 4. Provide a construction detail for Rain Gaurdians. YES
- Provide an O&M Agreement that meets District requirements. NO
- 6. Provide TEP approval of wetland delineation. NO

Findings: The infiltration basin was updated to be slightly smaller due to City comments. This resulted in a slight increase in the HWL and rates out of the basin. The HWL is still contained within the basin, rate control is met, and the basin provides more than the required water quality volume.

Recommendation: Approval with 3 Conditions and 2 Stipulations:

Conditions:

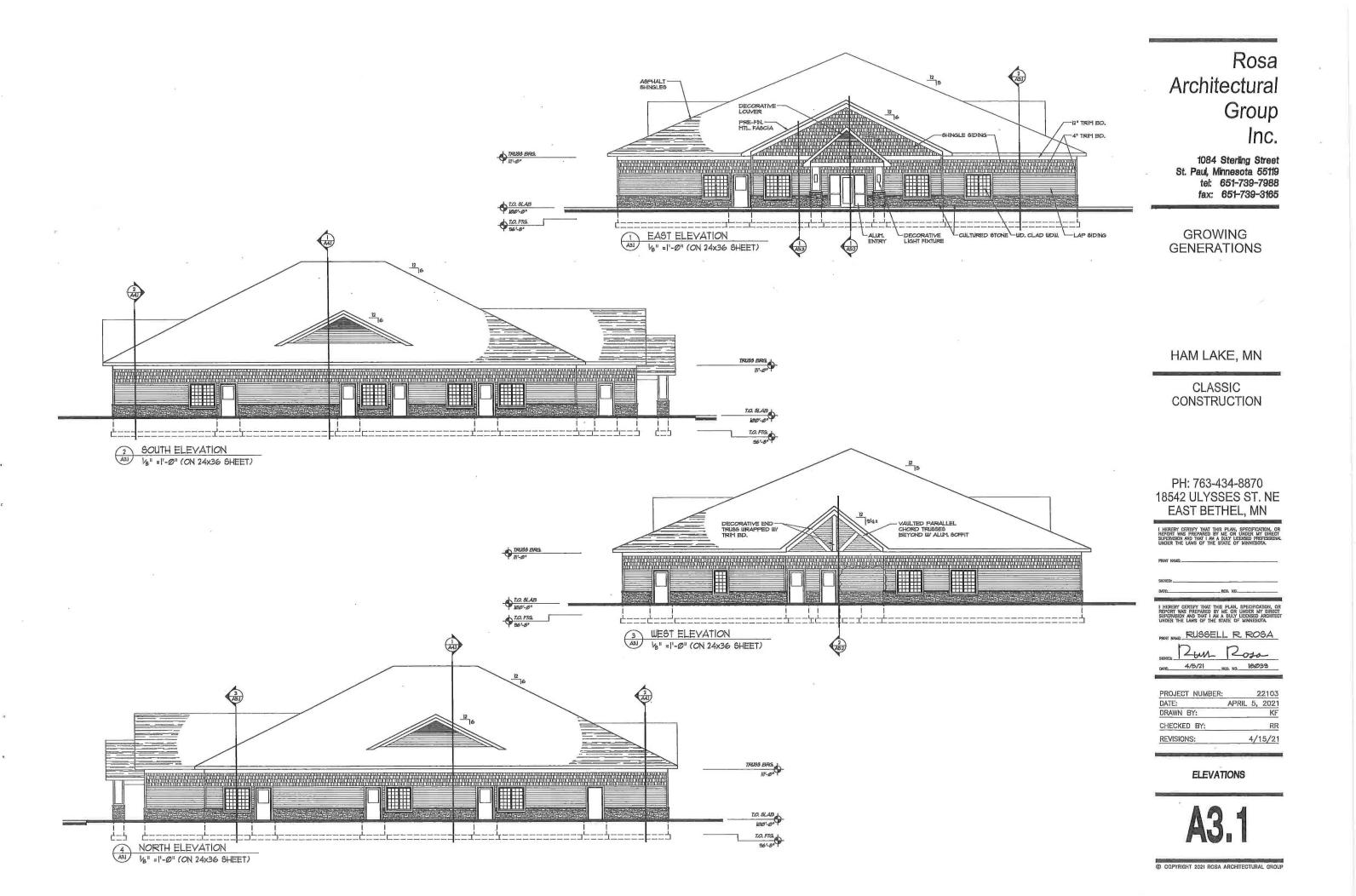
- Receipt of escrows.
- 2. Provide proof of recording of an O&M Agreement that meets District requirements.
- 3. Provide TEP approval of wetland delineation.

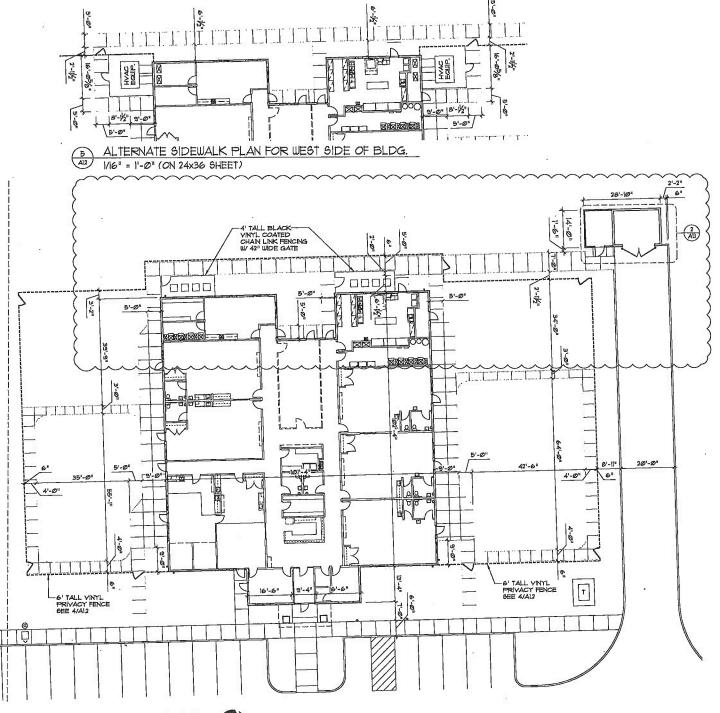
Stipulations:

1. Submittal of as-builts for the following stormwater management practices, including volumes and critical elevations:

Stormwater Treatment Practices	Number
Infiltration Basin	1
RainGaurdians	2
Outlet Control Structure	1

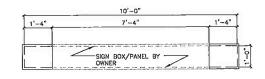
2. Completion of a post construction infiltration test on Infiltration Basin (P1) by filling the basin to a minimum depth of 6 inches with water and monitoring the time necessary to drain, or multiple double ring infiltration tests to ASTM standards. The Coon Creek Watershed District shall be notified prior to the test to witness the results.











MONUMENT SIGN PLAN

| 3 | MONUMENT SIGN PLAN
| 2 | = | 1-0 | (ON 24x36 SHEET)



Rosa Architectural Group Inc.

1084 Sterling Street St. Paul, Minnesota 55119 tel: 651-739-7988 fax: 651-739-3165

GROWING GENERATIONS

RADISSON RD. NE & BUNKER LAKE BLVD. NE HAM LAKE, MN

CLASSIC CONSTRUCTION

PH: 763-434-8870 18542 ULYSSES ST. NE EAST BETHEL, MN

REPORT W	AS PREPAREI N AND THAT I E LAWS OF 1	AN A DULY	or under Licensed	PROFESSA
PRINT NAME				
SIGNED:		RED	NO.	
DATE:	CERTIFY THA			FICATION.
REPORT V	AS PREPARED ON AND THAT IE LAWS OF	HY ME	OR UNDER	r My Dir Sed Archi
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PRINT NAME	12000		1 24 1 3	

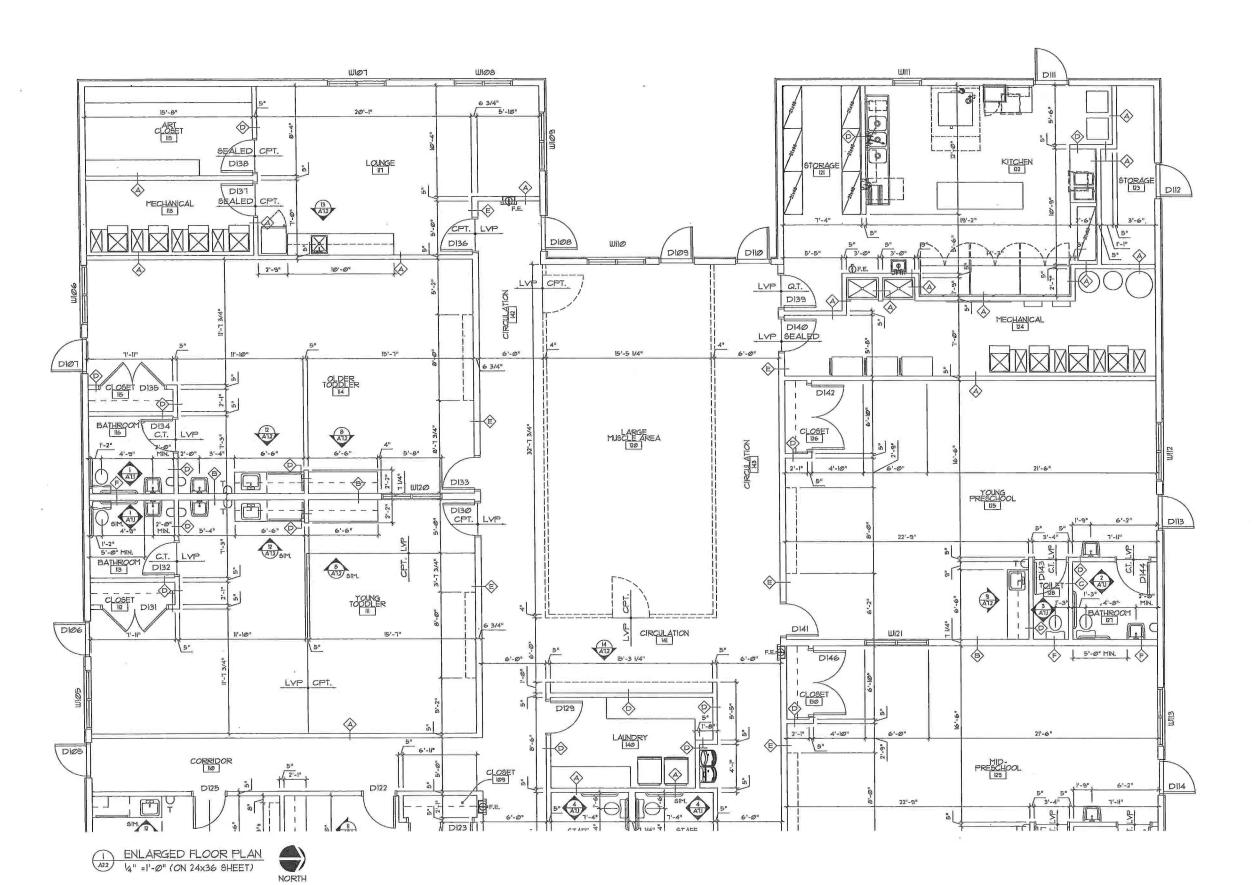
PROJECT NUMBER:		2	2103
DATE:	APRIL	5,	2021
DRAWN BY:			JL
CHECKED BY:			RR
REVISIONS:		4/	15/21

4/5/21 __RSDL NO. 18/039

SIDEWALK DIMENSION PLAN AND DETAILS

A1.2

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Rosa Architectural Group Inc.

1084 Sterling Street St. Paul, Minnesota 55119 tel: 651-739-7988 fax: 651-739-3165

GROWING GENERATIONS

RADISSON RD. NE & BUNKER LAKE BLVD. NE HAM LAKE, MN

CLASSIC CONSTRUCTION

PH: 763-434-8870 18542 ULYSSES ST. NE EAST BETHEL, MN

SUPERVISION	AS PREPARED I AND THAT I A E LAWS OF TH	M A DULY U	CENSED PROFE	KORZZ
PRINT NAME:		_		_
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I HEREBY REPORT W	CERTIFY THAT AS PREPARED	THIS PLAN	SPECIFICATION	ON, D

REPORT WAS PREPARED BY ME ON UNDER MY DISSUPERVISION BY DIST HE AND OF THE STATE OF MINISTORAL

PRENT INMER RUSSELL R. ROSA

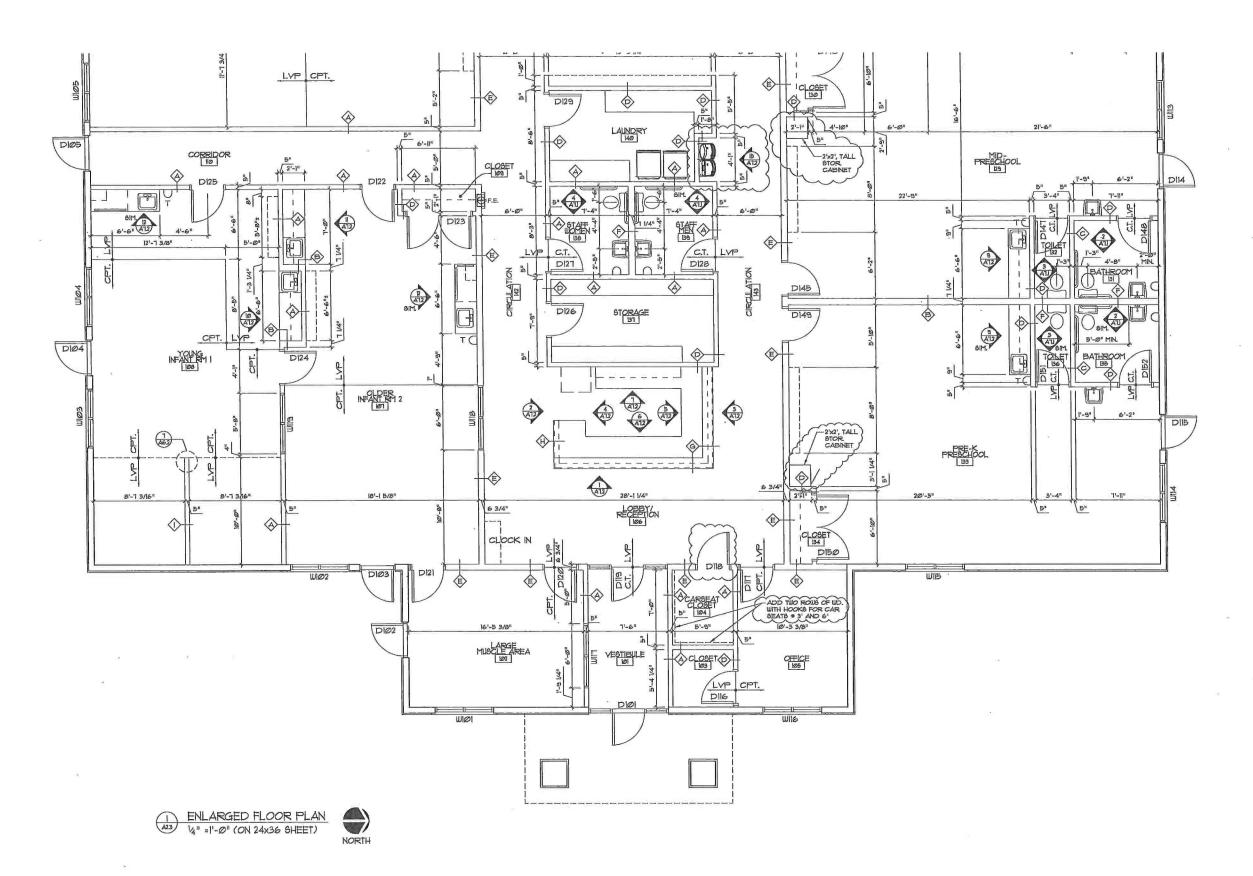
SIGNEDI 24/5/21 REQ. NO. 18/2/39

DATE:	APRIL	5,	202
DRAWN BY:			K
CHECKED BY:			R
REVISIONS:			

ENLARGED FLOOR PLAN

A2.2

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Rosa Architectural Group Inc.

1084 Sterling Street St. Paul, Minnesota 55119 tel: 651-739-7988 fax: 651-739-3165

GROWING GENERATIONS

RADISSON RD. NE & BUNKER LAKE BLVD. NE HAM LAKE, MN

CLASSIC CONSTRUCTION

PH: 763-434-8870 18542 ULYSSES ST. NE EAST BETHEL, MN

REPORT	Y CERTIFY THAT WAS PREPARED ON AND THAT I A THE LAWS OF TH	BY ME OR U	NDER MY D
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 PROJECT NUMBER:
 22103

 DATE:
 APRIL 5, 2021

 DRAWN BY:
 KF

 CHECKED BY:
 RR

 REVISIONS:
 4/15/21

ENLARGED FLOOR PLAN

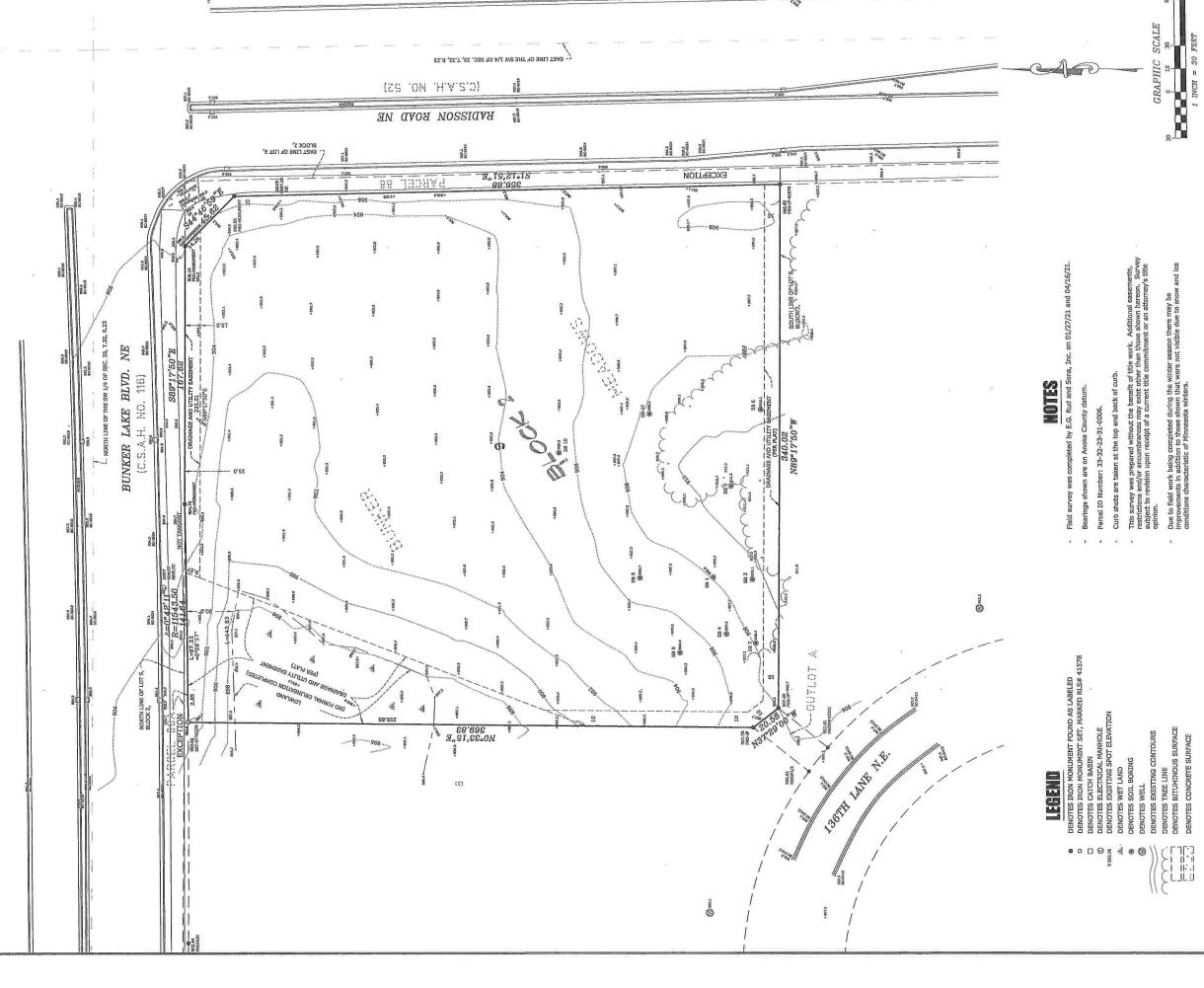
A2.3

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OF SURVEY CERTIFICATE

~for~ CLASSIC CONSTUCTION ~of~ GROWING GENERATIONS HAM LAKE, MN

LEGAL DESCRIPTION



BENCHMARK



F. C. RUD & SONS, INC.

Professional Land Surveyors
6776 Lake Drive NE, Suite 110
Lino Lakes, MN 55014
Tel. (651) 361-8200 Fax (651) 361-8701

GROWING GENERATIONS DAYCARE

TITLE SHEET, LEGEND, EXISTING CONDITIONS & REMOVAL PLAN

HAM LAKE, MINNESOTA

LEGEND



* NOT ALL SYMBOLS ARE APPLICABLE.

GENERAL NOTES

CALL *811* FOR EXISTING UTILITIES LOCATIONS PRIOR TO ANY EXCAVATIONS.

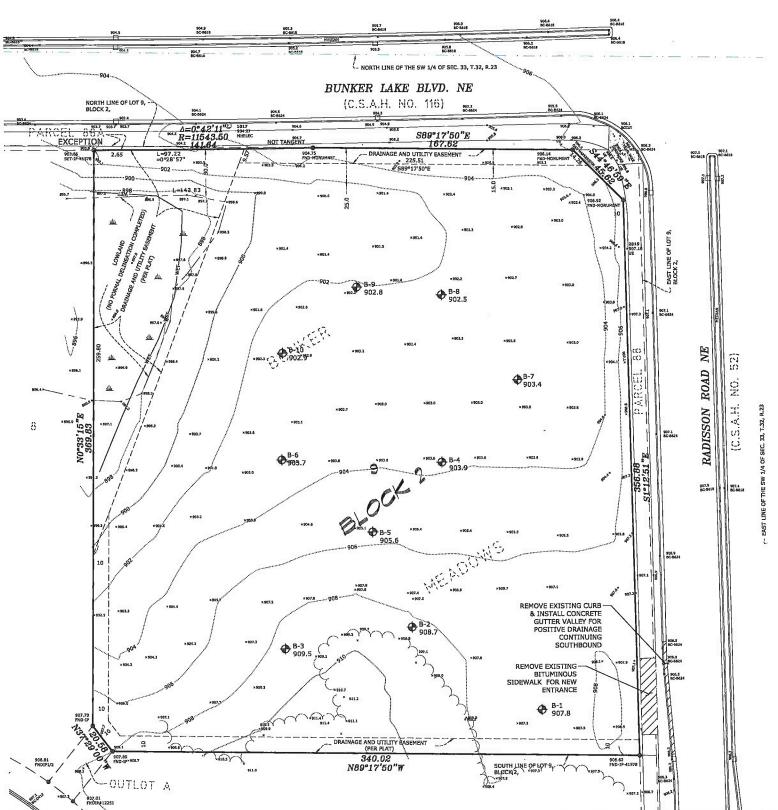
ALL WORK WITHIN ANOKA COUNTY RIGHT-OF-WAY SHALL CONFORM TO THE 2018 EDITION OF THE MIDD'T STANDARD SPECIFICATIONS FOR CONSTRUCTION.

THE CONTRACTOR SHALL OBTAIN A RIGHT-OF-WAY PERMIT FROM THE CITY PRIOR TO ANY WORK

NOTIFY CITY A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

ALL ELECTRIC, TELEPHONE, AND GAS EXTENSIONS INCLUDING SERVICE LINES SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISCONNECTIONS SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY





VICINITY MAP



M.Q.A. C.W.P.

CHCKD BY: PROJ. NO. M.Q.A. 21-1956 RIGINAL DATE: JANUARY 28, 2021

PREPARED FOR: CLASSIC CONSTRUCTION



6776 LAKE DRIVE SUITE 110 LINO LAKES, MN 55014

NORTH



TITLE SHEET, LEGEND, EXISTING CONDITIONS, & REMOVAL PLAN BUNKER LAKE BLVD NE & RADISSON ROAD NE

SHEET INDEX

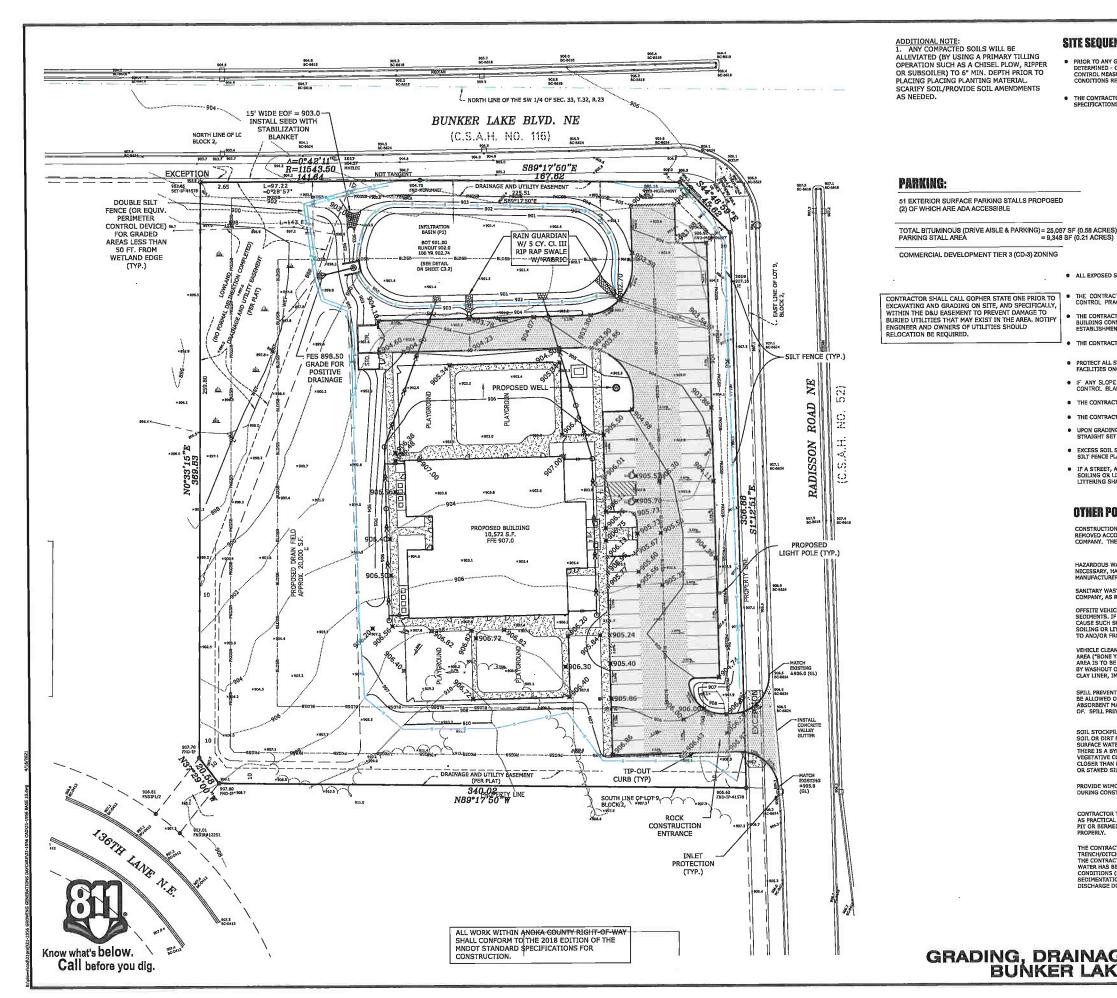
C3.1-3.3 DETAILS

UTILITY PLAN

TITLE SHEET, LEGEND & EXISTING CONDITIONS

C4.1-4.2 STORM WATER POLLUTION PREVENTION PLAN

GRADING, DRAINAGE & EROSION CONTROL PLAN



ADDITIONAL NOTE:
1. ANY COMPACTED SOILS WILL BE ALLEVIATED (BY USING A PRIMARY TILLING OPERATION SUCH AS A CHISEL PLOW, RIPPER OR SUBSOILER) TO 6" MIN. DEPTH PRIOR TO PLACING PLACING PLANTING MATERIAL. SCARIFY SOIL/PROVIDE SOIL AMENDMENTS

SITE SEQUENCING

- PRIOR TO ANY GRADING OPERATIONS, THE CONTRACTOR SHALL INSTALL ROCK CONSTRUCTION ENTRANCE (LOCATIONS TO BE DETERMINED COORDINATE WITH OWNER) AND PERIMETER SILT FENCE AS SHOWN ON PLAN. (CONTACT CITY TO INSPECT EROSION CONTROL MEASURES PRIOR TO GRADING OPERATIONS, IF NECESSARY.) ADDITIONAL SILT FENCE MAY BE NECESSARY IF LOCAL CONDITIONS REQUIRE.
- THE CONTRACTOR SHALL PROVIDE ALL SOD, SEED, MULCH AND FERTILIZER WHICH SHALL CONFORM WITH THE FOLLOWING MNDOT SPECIFICATIONS AS MODIFIED BELOW.

ITEM	MNDOT SPECIFICATION/NOTES
SOD	3878
SEED **	3876
* FOR TURF ESTABLISHMENT	
COMMERCIAL T	TURF MNDOT MIX 25-131 (220 LBS/ACRE)
RESIDENTIAL T	TURF MNDOT MIX 25-131 (120 LBS/ACRE)
TEMPORARY FALL CO	OVER MNDOT MIX 21-112 (100 LBS/ACRE)
SPRING/SUM	MER MNDOT MIX 21-111 (100 LB5/ACRE)
SOIL-BUILDING CO	
1-2 YEARS CO	OVER MNDOT MIX 22-111 (30.5 LBS/ACRE)
2-5 YEARS CO	OVER MNDOT MIX 22-112 (40 LBS/ACRE)
MULCH	3882 (TYPE 1 - DISC ANCHORED)
FERTILIZER	3881
WOOD EIRED BLANKET	3885 (CATEGORY 2)

* MOW A MINIMUM OF ONCE PER 2 WEEKS

** SEEDED AREAS SHALL BE EITHER MULCHED OR COVERED BY FIBROUS BLANKETS
TO PROTECT SEEDS AND LIMIT FROSION.

- ALL EXPOSED SOILS MUST HAVE TEMPORARY EROSION CONTROL PROTECTION OR PERMANENT COVER WITHIN SEVEN (7) DAYS.
- THE CONTRACTOR SHALL PAY SPECIAL ATTENTION TO ALL ADJACENT PROPERTY LINES AND MAKE SURE THE EROSION CONTROL PRACTICES INPLACE IN THOSE AREAS PREVENT MIGRATION OF SEDIMENT ONTO ADJACENT PROPERTIES.
- THE CONTRACTOR SHALL MAINTAIN SILT FENCE, INCLUDING THE REMOVAL OF ACCUMULATED SEDIMENT, THROUGH COMPL BUILDING CONSTRUCTION. SILT FENCE TO BE REMOVED ONLY AFTER COMPLETION OF BUILDING CONSTRUCTION AND UPOL ESTABLISHMENT OF VEGETATION.
- THE CONTRACTOR SHALL PROVIDE WOOD FIBER BLANKET FOR ALL AREAS OF CONCENTRATED FLOW AND FOR ALL SLOPES 3:1 OR GREATER,
- PROTECT ALL STORM WATER MANAGEMENT FACILITIES FROM CONSTRUCTION RUN-OFF. CONTRACTOR TO INSTALL AND CONSTRUCT SAID
 FACILITIES ONCE SITE HAS BEEN STABILIZED.
- IF ANY SLOPES APPEAR TO BE FAILING, THE CONTRACTOR SHALL PROVIDE ADDITIONAL SILT FENCE, BIOROLLS AND EROSION CONTROL BLANKET AS NEEDED.
- THE CONTRACTOR SHALL SOD ALL DISTURBED DRAINAGE AREAS, INCLUDING SWALES & OVERFLOWS.
- UPON GRADING COMPLETION THE CONTRACTOR SHALL PROVIDE NATIVE TOPSOIL WITH SOD OR SEED, AND MULCH ANCHORED WITH A
- EXCESS SOIL SHOULD BE TREATED LIKE OTHER EXPOSED SOIL AND STABILIZED WITHIN 72 HOURS. ANY SOIL STOCKPILES ARE TO HAVE
- IF A STREET, ALLEY, SIDEWALK OR OTHER PUBLIC PLACE SHOULD BECOME SOILED OR LITTERED, THE CONTRACTOR SHALL CAUSE SUCH SOILING OR LITTERING TO BE CLEANED UP BY SWEEPING NOT LATER THAN THE END OF THE WORKING DAY IN WHICH SUCH SOILING OR LITTERING SHALL HAVE OCCURED OR BEEN OSSERVED.

OTHER POLLUTION CONTROL MEASURES

CONSTRUCTION WASTE MATERIALS - ALL WASTE MATERIALS GENERATED AS A RESULT OF SITE CONSTRUCTION SHALL BE COLLECTED AND REMOVED ACCORDING TO ALL LOCAL AND/OR STATE WASTE MANAGEMENT REGULATIONS BY A LICENSED SOLID WASTE MANAGEMENT COMPANY. THE CONTRACTOR WILL ENSURE THAT ALL SITE PERSONNEL ARE INSTRUCTED IN THESE PRACTICES.

US WASTES - ALL HAZARDOUS WASTE MATERIALS SHALL BE STORED PROPERLY TO PREVENT SPILLS AND VANDALISM. WHEN LY, HAZARDOUS WASTES WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL AND/OR STATE REGULATION OR BY THE

SANITARY WASTE - ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS BY A LOCAL, LICENSED WATER MANAGEMENT COMPANY, AS REQUIRED BY LOCAL REGULATION.

OFFSITE VEHICLE TRACKING - A ROCK CONSTRUCTION ENTRANCE HAS BEEN PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. IF A STREET, ALLEY, SIDEWALK OR OTHER PUBLIC PLACE SHOULD BECOME SOILED OR LITTERED, THE CONTRACTOR SHALL CAUSE SUCH SOILING OR LITTERING TO BE CLEANED UP BY SWEEPING NOT LATER THAN THE END OF THE WORKING DAY IN WHICH SUCH SOILING OR LITTERING SHALL HAVE OCCURRED OR BEEN OBSERVED. DUMP TRUCKS HAULING LOOSE MATERIALS (SAND, TOPSOIL, ETC.) TO AND/OR FROM THE SITE SHALL BE COVERED WITH A TARPAULIN.

VEHICLE CLEANING - NO ENGINE DEGREASING IS ALLOWED ON-SITE. EXTERNAL WASHING OF VEHICLES TO BE CONFINED TO A DEFINED AREA ("BONE YARD") ON-SITE. CONTRACTOR TO PROVIDE DESIGNATED TRUCK WASHOUT AREA WITH APPROPRIATE SIGNAGE. WASHOUT AREA IST OB A MINIMUM OF 50° IROM DITCHES, PONDS, OR OTHER STORMWATER FEATURES. ALL LIQUID AND SOLID WASTE GENERATED BY WASHOUT OPERATIONS MUST BE CONTAINED IN A LEAK-PROOF CONTAINMENT FACILITY OR IMPERMEABLE LINER (E.G. COMPACTED CLAY LINER, IMPERMEABLE GO-MEMBRANE) AND DISPOSED OF PROPERLY.

SPILL PREVENTION AND CONTROL - ALL VEHICLES WILL BE CHECKED FOR LEAKING OIL AND FLUIDS. VEHICLES LEAKING FLUIDS WILL NOT BE ALLOWED ON-STIE. SPILL KITS WILL BE STORED ON-STIE AND ALL SPILLS WILL BE CLEANED UP IMMEDIATELY DISCOVERY. SPENT ABSORBENT MATERIALS AND AGG WILL BE HAULED OF-STIE IMMEDIATELY AFTER THE SPILL IS CLEANED UP AND PROPERTY DISPOSED OF. SPILL PREVENTION AND CONTROL MEASURES SHALL BE IMPLEMENTED ONCE CONSTRUCTION BEGINS.

SOIL STOCKPILES - INSTALL SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROLS AROUND ALL TEMPORARY SOIL STOCKPILES. LOCATE SOIL OR DIRT STOCKPILES SUCH THAT DOWNSLOPE DRAINAGE LENGTH IS NO LESS THAN 8 M (25 FEET) FROM THE TOD OF THE PILE TO A SURFACE WATER, INCLUDING STORMWATER CONVEYANCES SUCH AS CURB AND GUTTER SYSTEMS, OR CONDUITS AND DITTHE SUBLESS THERE IS A BYPASS IN PLACE FOR THE STORMWATER, IF REMAINING FOR MORE THAN 7 DAYS, STABILIZE THE STOCKPILES BY MULCINING, VEGETATIVE COVER, TARRS, OR OTHER MEANS. DURING STREET REPAIR, COVER CONSTRUCTION SOIL OR DIRT STOCKPILES LOCATED CLOSE THAN 8 M (25 FEET) TO A ROADWAY OR DRAINAGE CHANNEL WITH TARPS, AND PROTECT STORM SEWER INLETS WITH SILT SOCKS OR STAKED SILT FENCE.

PROVIDE WIMCO (OR APPROVED EQUAL) FOR INLET PROTECTION AT ALL EXISTING STORM SEWER INLETS THAT WILL RECEIVE RUN-OFF DURING CONSTRUCTION. INLET PROTECTION TO REMAIN IN-PLACE UNTIL AT LEAST 70% OF SITE VEGETATION HAS BEEN ESTABLISHED.

CONTRACTOR TO PROVIDE DESIGNATED CONCRETE TRUCK WASHOUT AREA WITH APPROPRIATE SIGNAGE. KEEP WASHOUT AREAS AS FAR AS PRACTICAL, FROM STORM DRAINS, DITCHES AND PONDS. DO NOT ALLOW RUN-OFF FROM THIS AREA BY CONSTRUCTING A TEMPORARY FUT OR BETWEED AREA LARGE ENDUGH FOR LIQUID AND SOLD WASTE. AFTEW MASTE CONCRETE IS SET, BREAK-UP AND DISPOSE OF

THE CONTRACTOR MUST DISCHARGE TURBID OR SEDIMENT-LADEN WATERS RELATED TO DEWATERING (E.G., PUMPED DISCHARGES, TRENCH/DITCH CUTS FOR DRAINAGE). TO A TEMPORARY OR PERMANENT SEDIMENTATION BASIN ON THE PRODECT SITE UNLESS INFEASIBLY HE CONTRACTOR MAY DISCHARGE FROM THE TEMPORARY OR PERMANENT SEDIMENTATION BASINS TO SURFACE WATERS I THE BASIN WATER HAS BEEN USUALLY CHECKED TO ENSURE ADEQUATE TREATMENT HAS BEEN OBTAINED IN THE BASIN AND THAT NUISANCE CONDITIONS (SEE MINN. R. 7030.0216, SURP. 2) WILL NOT NEGLIT FROM THE DISCHARGE. IT THE WATER CANNOT BE DISCHARGE TO A SEDIMENTATION BASIN PROOF TO HERING THE SURFACE WATER, IT MUST BE HEADED WITH THE APPROPRIATE BAYS, SUCH THAT THE DISCHARGE TO A DISCHARGE DOES NOT ADDRESSED APPECT THE RECEIVING WATER OR DOWNSTREAM PROPERTIES.

M.Q.A. 21-1956 ORIGINAL DATE: JANUARY 28, 2021

M.Q.A.

CHCKD BY: PROJ. NO.

C.W.P.

PREPARED FOR: CLASSIC CONSTRUCTION

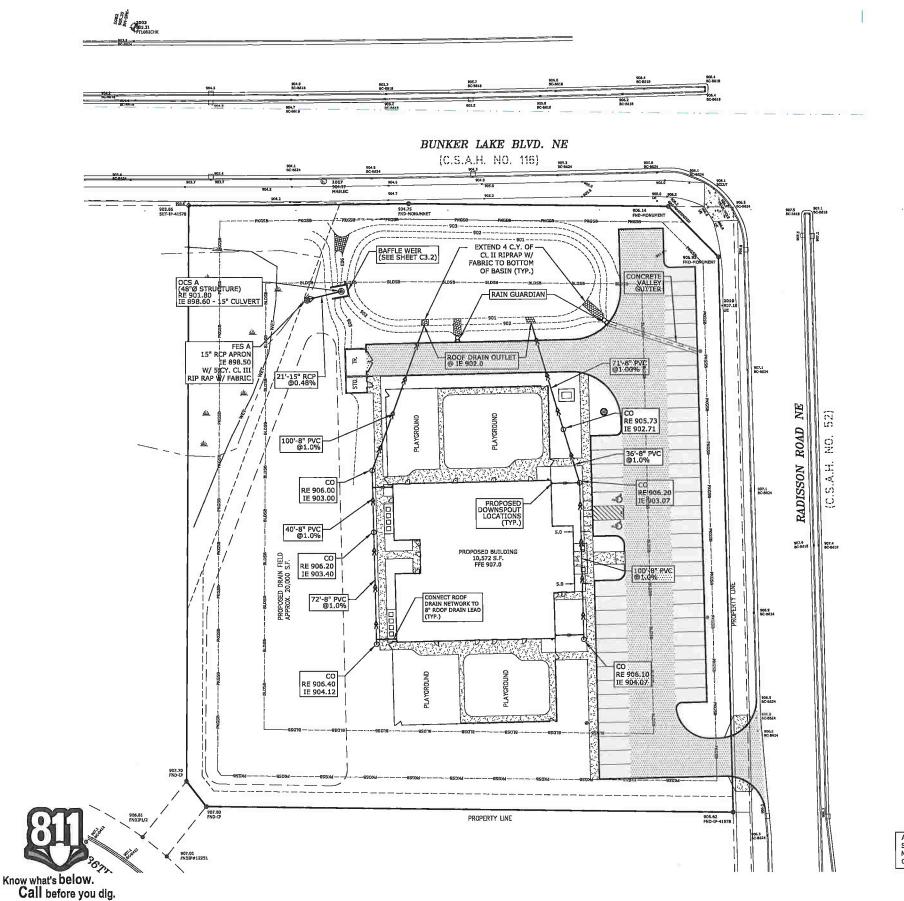


ENGINEERING, INC 6776 LAKE DRIVE SUITE 110 LINO LAKES, MN 65014

NORTH



GRADING, DRAINAGE, AND EROSION CONTROL PLAN BUNKER LAKE BLVD NE & RADISSON ROAD NE



STORM SEWER NOTES

FIELD VERIFY SIZE, ELEVATION, AND LOCATION OF EXISTING STORM SEWER AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY INSTALLATIONS.

WHEN CALLED OUT AS PIPE, STORM SEWER SHALL BE REINFORCED CONCRETE PIPE (RCC) ANSI CO WITH A 4 GASKETS OR, IF ALLOWED BY CITY, PIPE PIPE WAY BE USER (SEE PLAN FOR LOCATIONS WHERE RCP IS REQUIRED.) HOPE PIPE SHALL MEET THE REQUIREMENTS OF ASSISTO MOSE, TYPE S WITH WATERTIST CONNECTIONS. USE SAND/GRANULAR MATERIAL FOR BACKFILLING AND COMPACTION OF HDPE/PVC PIPE II ACTORDANCE WITH THE REFULIEMENTS. OF ASSISTANCE ASTOR 2329.

STORM SEWER LENGTHS INCLUDE THE LAYING LENGTH OF THE FLARED-END SECTION LAYING LENGTH OF APRON TO 8E DEDUCTED FROM PAYMENT LENGTH OF PIPE.

ALL PORTIONS OF THE STORM SEWER SYSTEM LOCATED WITHIN 10 FEET OF THE BUILDING OR WATER SERVICE LINE MUST BE TESTED IN ACCORDANCE WITH MINNESOTA RULES, PART 4715,2820.

STORM SEWER PIPES TO BE JOINED TO THE CATCH BASIN MANHOLES W/ APPROVED RESILIENT RUBBER JOINTS TO MAKE THEM GASTIGHT OR WATERTIGHT. CEMENT MONTAR JOINTS ARE PERMITTED ONLY FOR REPAIRS AND CONNECTIONS OF EXISTING LINES CONSTRUCTED WITH SUCH JOINTS.

ALL WORK WITHIN ANOKA COUNTY RIGHT-OF-WAY SHALL CONFORM TO THE 2018 EDITION OF THE MNDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

UTILITY PLAN BUNKER LAKE BLVD NE & RADISSON ROAD NE

DRAWN BY: DESIGN BY:
M.Q.A. C.W.P.
CHCKD BY: PROJ. NO.
M.Q.A. 21-1956
ORIGINAL DATE:
JANUARY 28, 2021

DATE REVISION DESCRIPTION OF STATE OF S

NOTATIONS
DAYCARE
NAN LAKE, MINNESOTA

PREPARED FOR: CLASSIC CONSTRUCTION



& ENGINEERING

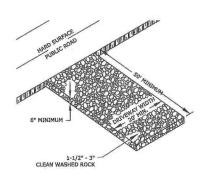


6776 LAKE DRIVE SUITE 110 LINO LAKES, MN 55014 PHONE: (651) 361-8210 FAX: (651) 361-8701

NORTH



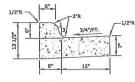
C2



ROCK CONSTRUCTION ENTRANCE

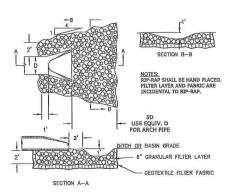
NOT TO SCALE

PROVIDE 4" CLASS 5 UNDER CURB (TYP)



B612 CONCRETE CURB & GUTTER

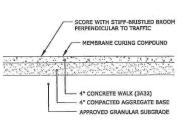
NOT TO SCALE





RIP-RAP AT OUTLETS

NOT TO SCALE



USE EXPANSION JOINT WHERE NEW CONCRETE MEETS EXISTING CONCRETE OR STRUCTURE.

CONTROL JOINTS SHALL BE CUT WITH A JOINTER HAVING A RADIUS OF 1/4* AND SPACED @ 5'-0" O.C. MAX. U.N.O.

4) ANTI-SPALLING COMPOUND SHALL BE APPLIED TO CONCRETE SURFACES.

TYPICAL CONCRETE SIDEWALK

NOT TO SCALE



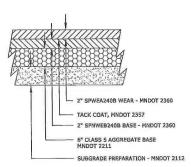
B612 CONCRETE CURB & GUTTER (TIP-OUT)

NOT TO SCALE

GUTTER LINE -RADISSON HOAD NE

8424 CONCRETE CURB & GUTTER (FIELD VERIFY)

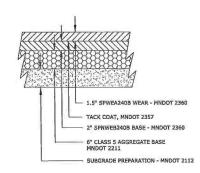
CONCRETE CROSS GUTTER



PAVING SHALL CONFORM TO THE LATEST EDITION OF MNDOT'S STANDARD SPECIFICATIONS FOR CONSTRUCTION AND THE CITY'S STANDARDS FOR STREET AND UTILITY CONSTRUCTION.

BITUMINOUS - HEAVY DUTY

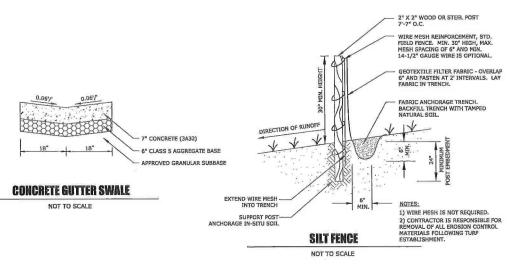
TRANSITION 8424 CURB ON RADISSON TO 8612 CURB USED FOR THE DEVICEMAN ENTRANCE

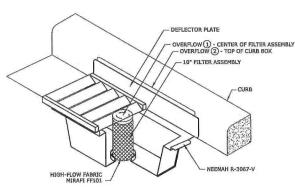


PAVING SECTION SHALL BE REVIEWED AND APPROVED BY GEOTECHNICAL ENGINEER PRIOR TO ANY INSTALLATIONS.

BITUMINOUS - LIGHT DUTY

NOT TO SCALE





WIMCO INLET PROTECTION

NOT TO SCALE

6776 LAKE DRIVE SUITE 110 LINO LAKES, MN 55014

PHONE: (651) 381-8210 FAX: (651) 361-8701

DETAILS & NOTES
BUNKER LAKE BLVD NE & RADISSON ROAD NE

CHCKD BY: PROJ. NO. M.Q.A. 21-1956 ORIGINAL DATE: JANUARY 28, 2021

M.Q.A.

C.W.P.

PREPARED FOR: CONSTRUCTION



ENGINEERING, INC.

PLANTING SUGGESTIONS

BOTTOM OF BASIN	SIDE SLOPES
NATIVE PLANTINGS	NATIVE PLANTINGS
GIANT BUR-REED	BIG BLUESTEM
WOOL GRASS SEDGE	BLUE JOINT GRASS
CORD GRASS	SWITCH GRASS
BLUE FLAG IRIS	BLUE VERVAIN
SWAMP MILKWEED	PRAIRIE BLAZINGSTAR
TAMARACK	TAMARACK
JOE-PYE WEED	NEW ENGLAND ASTER
NEW ENGLAND ASTER	RED-OSIER DOGWOOD
PRAIRIE BLAZINGSTAR	SANDBAR WILLOW
BONESET	BLACK CHOKECHERRY
BLACK WILLOW	BLACK WILLOW
DETOR HALLOH	55.00.00

- NOTES

 1. WELL-BLENDED FILTRATION MEDIA TO BE COMPROMISED OF (BY VOLUME); 70-85% CLEAN CONSTRUCTION SAND AND 15-30% ON SITE TOPSOIL

 2. CONTRACTOR MARIK-OFF INFILTRATION BASIN AREA WITH SILT CONTRACTOR FIRST WISE MARKER

 3. USES LOWI-MYROT, EARTH MOVING EQUIPMENT SUCH AS WIDE TRACK OR MARSH TRACK EQUIPMENT, OR OTHER LIGHT-EQUIPMENT TWO THEMEN LIGHT-EQUIPMENT WITH TURF-TYPE TIRES, IN INFILTRATION BASIN AREA.

- TRACK OR MARSH TRACK SQUIPMENT, OR OTHER LIGHT-EQUIPMENT WITH TURE-TYPE TIRES, IN INFILITATION BAS AREA.

 4. NO MINING OR OVER-EXCAVATION IN INFILITATION BASIN.

 5. NO BURNING OF MATERIALS IN INFILITATION BASIN.

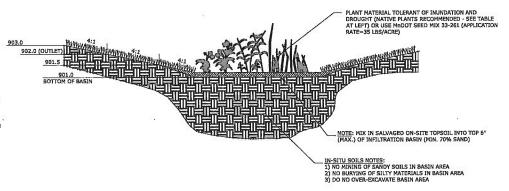
 6. FINAL GRADE ONLY JUPON STABLIZATION OF JUPSTREAM AREAS.

 7. BASIN BOTTOM TO BE GRADED FLAT.

 8. ALLEVIATE ANY COMPACTED SOILS PRIOR TO SEEDING.

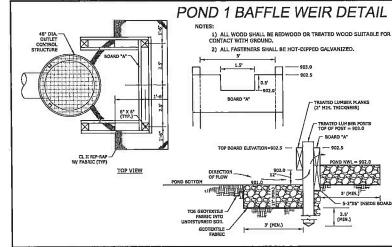
 9. INFILITATION BASIN TO REMAIN INLINED.

 10. PROTECTION ACTIVITIES. EXCAVALTE TO FINAL GRADE ONLY UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREAS.



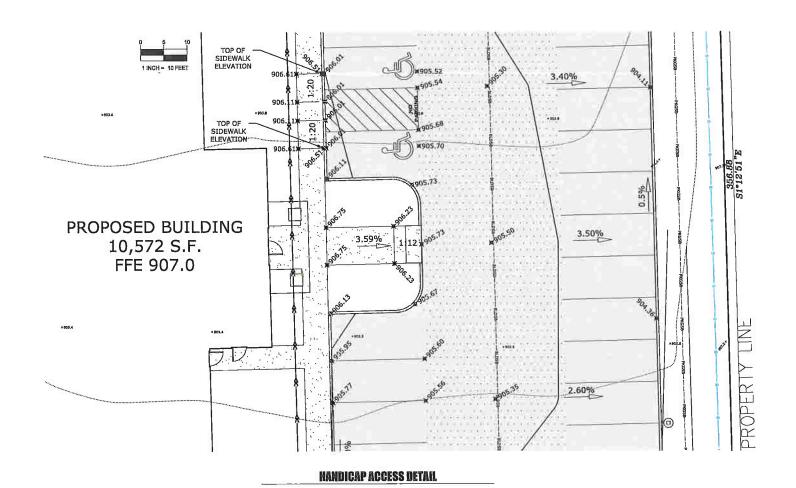
POST-CONSTRUCTION INFILTRATION TESTIN GUIRED; PERFORM TEST BY FILLING BASI WITH SIX (B) INCHES OF WATER AND MONITORING DRAW-DOWN TIMES CONTACT COON CREEK WATERSHED DISTRIC AT LEAST 24 HOUR PRIOR TO WITNESS TEST

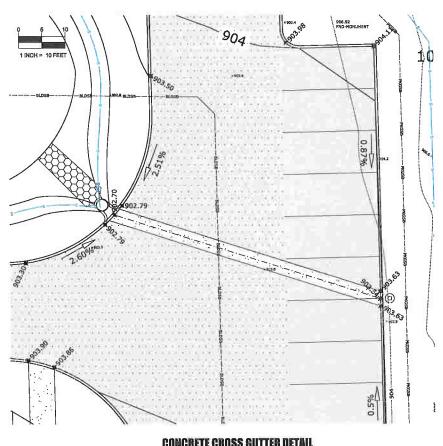
DO NOT EXCAVATE BASIN TO FINAL GRADE, OR WITHIN THREE (3) FEET OF FINAL GRADE, UNTIL THE CONTRIBUTING DAVINGE AREA HAS BEEN CONSTRUCTED AND FULLY STABILIZED UNLESS THEY PROVIDE RIGOROUS EROSION PREVENTION AND SEDIMENT CONTROLS (E.G., DIVERSION BERMS) TO KEEP SEDIMENT AND RUNOFF COMPLETELY WAY FROM THE INFILTRATION AREA.



INFILTRATION BASIN (P1)

NOT TO SCALE





CONCRETE CROSS GUTTER DETAIL

DETAILS & NOTES BUNKER LAKE BLVD NE & RADISSON ROAD NE

DRAWN BY: 1 DESIGN BY: M.Q.A. C.W.P. CHCKD BY: PROJ. NO. M.Q.A. 21-1956 RIGINAL DATE: JANUARY 28, 2021

PREPARED FOR: CLASSIC CONSTRUCTION



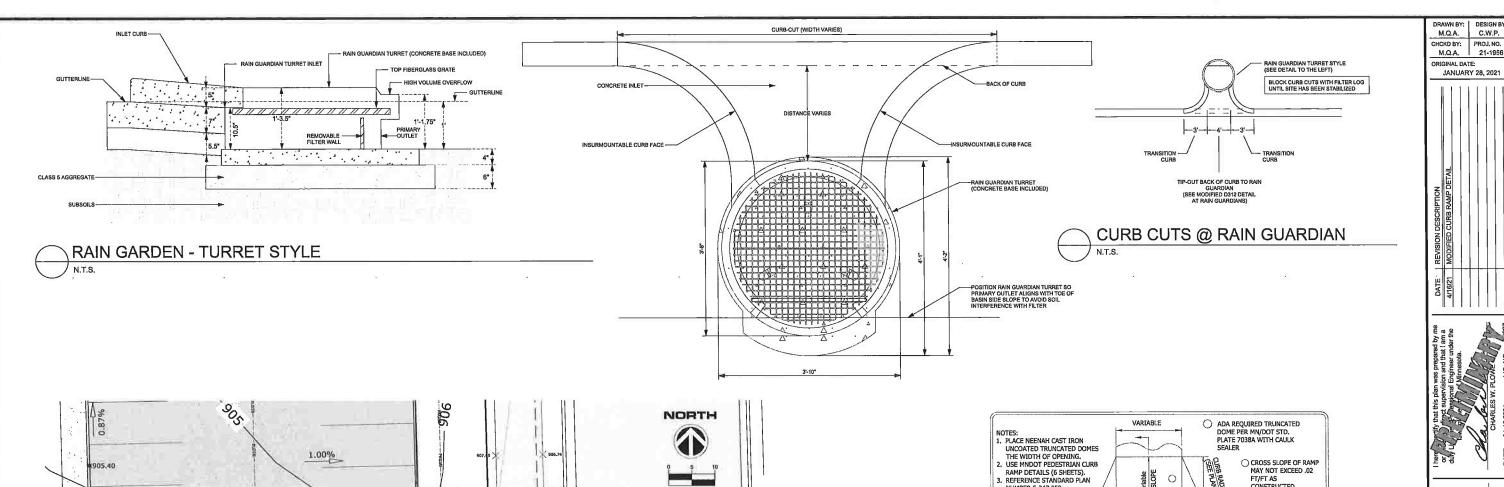
ENGINEERING, INC. 6776 LAKE DRIVE SUITE 110 LINO LAKES, MN 55014 PHONE: (651) 361-8210 FAX: (651) 361-8701

NORTH



1 INCH = 10 FEET

C3.2



NOTES:

THE EXISTING CURB ALONG RADISSON

ROAD SHALL BE REMOVED AND REPLACED WITH A CONCRETE VALLEY

GUTTER TO MAINTAIN DRAINAGE FLOW

THE CONTRACTOR SHALL SAWCUT BETWEEN THE CURB AND THE

EXISTING BITUMINOUS
ROADWAY WHEN CONSTRUCTING
THE ENTRANCE AND CONCRETE

VALLEY GUTTER, ANY DAMAGE TO

THE PAVEMENT IS INCIDENTAL AND SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE COUNTY OR CITY.

TRANSITION

FROM B424 CURB ON RADISSON RD

BASED ON

SURVEY SURFACE - TYP.

(FIELD

TRANSITION FROM

B612 CURB TO B424 CURB ON RADISSON RD

TO B612 CURB FOR ENTRANCE TO DAYCARE

907

908

2

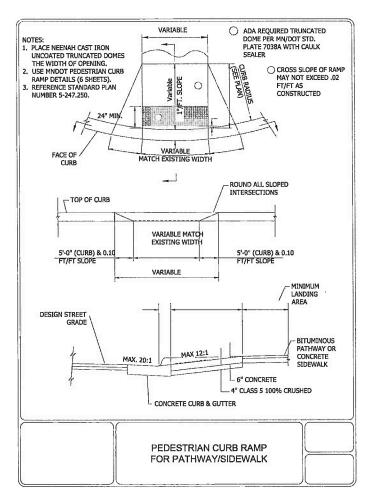
TRAIL AT ENTRANCE DETAIL

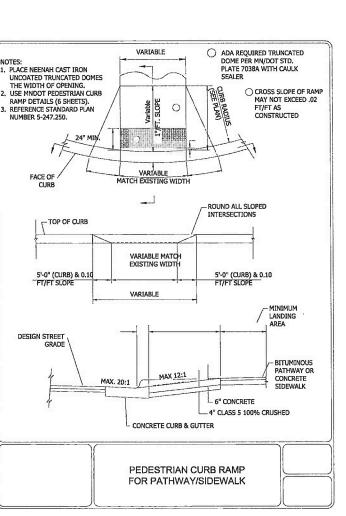
906.62 FND-IP-41578

906

1.75%

0.93%







PREPARED FOR:

CLASSIC CONSTRUCTION

SITE PLANNING & ENGINEERING

ENGINEERING, INC.

JANUARY 28, 2021

DETAILS & NOTES BUNKER LAKE BLVD NE & RADISSON ROAD NE

4.2 PERMITTEES MUST SUBMIT A NOT WITHIN 30 DAYS AFTER ALL TERMINATION CONDITIONS LISTED IN SECTION 13 ARE COMPLETE, (MINN, R, 7090)

COMPLETE, (MINN. K. 1989)

4.3 PERMITEES MUST SUBMIT A NOT WITHIN 30 DAYS AFTER SELLING OR OTHERWISE LEGALLY TRANSFERRING THE ENTIRE SITE, INCLUDING PERMIT RESPONSIBILITY FOR ROADS (F.G., STREET SWEEPING) AND STORMWATER INFRASTRUCTURE FINAL CLEAN OUT, OR TRANSFERRING PORTIONS OF A SITE TO ANOTHER PARTY. THE PERMITTEES' COVERAGE UNDER THIS PERMIT TERMINATES AT MIDNIGHT ON THE SUBMISSION DATE OF THE NOT. (MINN. R. 7090)

4.4 PERMITTEES MAY TERMINATE PERMIT COVERAGE PRIOR TO COMPLETION OF ALL CONSTRUCTION ACTIVITY IF THEY MEET ALL OF THE FOLLOWING CONDITIONS:

- 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

A. THE SUMPLIES WHITH HEM 13.3 THROUGH 13.7.

AFF PERMIT COVERAGE IS TERMINATED UNDER THIS TIEM, ANY SUBSEQUENT DEVELOPMENT ON THE REMAINING PORTIONS
OF THE SITE WILL REQUIRE PERMIT COVERAGE IT THE SUBSEQUENT DEVELOPMENT ITSELF OR AS PART OF THE REMAINING
COMMON PLAN OF DEVELOPMENT OR SALE WILL RESULT IN LAND DISTURBING ACTIVITIES OF ONE (1) OR MORE ACRES IN SIZE,
(MINN. R. 7050).

4.5 PERMITTEES MAY TERMINATE COVERAGE UPON MPCA APPROVAL AFTER SUBMITTING INFORMATION DOCUMENTING THE OWNER CANCELED THE PROJECT, IMINN, R, 7090)

5.1 STORMWATER POLLUTION PREVENTION PLAN (SWPPP) CONTENT [MINN, R. 7090] 5.3 THE SWPPP MUST INCORPORATE SPECIFIC BEST MANAGEMENT PRACTICES (BMP) USED TO COM REQUIREMENTS OF THIS PERMIT, IMINN, R. 70901 Y WITH THE

5.4 THE SWPPP MUST INCLUDE A NARRATIVE DESCRIBING THE TIMING FOR INSTALLATION OF ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPs AND A DESCRIPTION OF THE PERMANENT STORMWATER TREATMENT SYSTEMS, IMINN. R. 7090] SEDIMENT CONTROL BMPS AND A DESCRIPTION OF THE PERMANENT IS TORMINY HE INSERTING STEEMS, INSTITUTE, SET THE SAFETY HE INSERT THE STEEMS, INSTITUTE, SET THE SET THE SAFETY HE INSERT THE SAFETY HE SAFETY HE INSERT THE SAFETY HE SAFETY HE SAFETY HE SAFETY HE SAFETY THE SAFETY HE SAFET

5.6 THE SWPPP MUST INCLUDE THE CALCULATIONS AND OTHER INFORMATION USED FOR THE DESIGN OF TEMPORAR SEDIMENT BASINS AND ANY OF THE PERMANENT STORMWATER TREATMENT SYSTEMS REQUIRED IN SECTION 15, IMINN, R

5.7 THE SWPPP MUST INCLUDE ESTIMATED QUANTITIES ANTICIPATED AT THE START OF THE PROJECT FOR THE LIFE OF THE PROJECT FOR ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPS (E.G., LINEAR FEET OF SILT FENCE OR SQUARE FEET OF EROSION CONTROL BLANKET, JIMINA. R 7990)

5,8 THE SWPPP MUST INCLUDE THE NUMBER OF ACRES OF IMPERVIOUS SURFACE FOR BOTH PRE- AND POST-CONSTRUCTION.

5.9 THE SWPPP MUST INCLUDE A SITE MAP WITH EXISTING AND FINAL GRADES, INCLUDING DRAINAGE AREA BOUNDARIES. CTIONS OF FLOW AND ALL DISCHARGE POINTS WHERE STORMWATER IS LEAVING THE SITE OR ENTERING A SURFACE

WALEK. THE SITE MAP MUST INDICATE THE AREAS OF STEEP SLOPES, THE SITE MAP MUST ALSO INCLUDE IMPERVIOUS SURFACES, SOIL TYPES AND LOCATIONS OF POTENTIAL POLLUTANT-GENERATING ACTIVITIES AS IDENTIFIED IN SECTION 12, [MINN. R. 7080] 5.10 THE SWPPP MUST INCLUDE A MAP OF ALL SURFACE WATERS, EXISTING WETLANDS, AND STORMWATER PONDS OR BASINS THAT CAN BE IDENTIFIED ON MAPS SUCH AS UNITED STATES GEOLOGICAL SURVEY 7.5 MINUTE QUADRANGLE MAPS, THE NATIONAL WETLAND INVENTORY MAP OR EQUIVALENT MAPS AND ARE WITHIN ONE MILE (AERIAL RADIUS MEASUREMENT FROM THE PROJECT BOUNDARIES THAT WILL RECEIVE STORMWATER FROM THE CONSTRUCTION SITE, DURING OR AFTER CONSTRUCTION, THE SWPPP MUST IDENTIFY IF THE SURFACE WATERS ARE SPECIAL OR IMPAIRED WATERS, [MINN. R. 7090] 5.11 THE SWPPP MUST INCLUDE A SITE MAP SHOWING CONSTRUCTION ACTIVITY AREAS THAT ARE ADVACENT TO AND DRAIN TO PUBLIC WATERS FOR WHICH THE DINR HAS PROMULGATED "MORK IN WATER RESTRICTIONS" DURING SPECIFIED FISH SPANWING TIME FRAMES, IMIN, R. 7081)

5.12 DEDMOTES MUST IDENTIFY LOCATIONS OF 50' BUFFER ZONES AS REQUIRED IN ITEM 9.17 AND 100' PERMANENT BUFFER ZONES AS REQUIRED IN ITEM 23.11, ON PLAN SHEETS IN THE SWPPP, IMINN, R. 70901

ZORES AS REQUIRED IN TEM SO, IT, OF POW STEELS IN THE STIFT, MINING, K (1994)

THE DETERMINATION IN THE SWPPP:

S. TEMPORARY SEDIMENT BASIN AS DESCRIBED IN SECTION 14; AND

B. FOR LINEAR PROJECTS, IF THE PERMANENT STORMWATER TREATMENT SYSTEM CANNOT BE CONSTRUCTED WITHIN THE RIGHT-OF-WAY, REASONABLE ATTEMPT MUST BE MADE TO OBTAIN ADDITIONAL RIGHT-OF-WAY (ITEM 15.9); AND

c. BUFFER ZONES AS DESCRIBED IN ITEM 9,17 AND ITEM 23,11, [MINN, R, 7090]

5.14 IF PERMITTEES DETERMINE THAT A TEMPORARY SEDIMENT BASIN IS INFEASIBLE AS DESCRIBED IN ITEM 14.10, THE SWPPP MUST DESCRIBE THE ALTERNATIVE BMPS USED. [MINN. R. 7090]

5.15 WHERE SYSTEMS CANNOT MEET THE FULL VOLUME REDUCTION REQUIREMENT ON SITE (F.G. THE SITE HAS INFILTRATION IS, SEE ITEM 16,14 THROUGH ITEM 16,21) THE PERMITTEE MUST DOCUMENT THE REASONS IN THE SWPF

5.16 THE SWPPP MUST INCLUDE ANY STORMWATER MITIGATION MEASURES PROPOSED TO BE PART OF THE FINAL PROJECT IN 5.16 IN 8 WYPP MENTS INCLUDE NOT SUMMAY INCANOSERED SPORES REVIEW, ARCHEOLOGIC DID. ROT OTHER REQUIRED LOCAL ANY ENVIRONMENTAL REVIEW CONDUCTED FOR THE REPOLICET, OR PURPOSES OF THE PERMIT, MITIGATION MEASURES MEANS ACTIONS NECESSARY! TO AVOID, MINIMIZE, OR THE REPOLICET, OR MINIMOST REVIEW OF THE REPOLICE MEANS ACTIONS NECESSARY! TO AVOID, MINIMIZE, OR THE MITIGATE FOR THE TOTAL THE PERMIT SHAPE STATES AND THE PERMIT SHAPE
5 17 THE SWEPP MUST DESCRIBE THE METHODS USED FOR PERMANENT COVER OF ALL EXPOSED SOIL AREAS, MINN, R. 70901 5,18 PERMITTEES MUST IDENTIFY THE LOCATIONS OF AREAS WHERE CONSTRUCTION WILL BE PHASED TO MINIMIZE THE DURATION OF EXPOSED SOIL AREAS IN THE SWPPP, IMINN, R. 70901

5.19 FOR PROJECTS WITH A DISCHARGE POINT ON THE PROJECT WITHIN ONE (1) MILE (AERIAL RADIUS MEASUREMENT) OF AND WHICH FLOWS TO AN IMPAIRED WATER, PERMITTEES MUST IDENTIFY THE IMPAIRED WATER(S), AND ANY UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA). APPROVED TOTAL MAXIMUM DAILY LOAD (TIMDL) FOR THE POLLUTIANTS) OR STRESSOR(S) DESCRIBED IN ITEM 23.7, PERMITTEES IDENTIFICATION MUST INCLUDE THOSE TIMDLS APPROVED AT ANY TIME PRIOR TO PERMIT APPLICATION SUBMITTAL AND ARE STILL IN EFFECT, (MINN. R. 7090) 5,20 PERMITTEES MUST DOCUMENT IN THE SWPPP, ALL TRAINED INDIVIDUALS IDENTIFIED IN ITEM 21,2, DOCUMENTATION

NAMES OF PERSONNEL REQUIRED TO BE TRAINED; AND

DATES OF TRAINING AND NAME OF INSTRUCTOR(S) AND ENTITY PROVIDING TRAINING; AND

CONTENT OF TRAINING COURSE.

IF PERMITTEES DO NOT KNOW THE NAMES OF THE INDIVIDUALS AT THE TIME OF APPLICATION, THE PERMITTEES MUST ENSURE THEY DOCUMENT TRAINING BEFORE CONSTRUCTION ACTIVITY COMMENCES. [MINN. R. 7090] 221 THE SWPPP MUST IDENTIFY A PERSON KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL EMPS WHO WILL COORDINATE WITH ALL CONTRACTORS, SUBCONTRACTORS, AND OPERATORS ON-SITE TO OVERSEE THE IMPLEMENTATION OF THE SWPPP, [MINN, R. 7090]

5.22 THE SWPPP MUST DESCRIBE ANY SPECIFIC CHEMICALS AND CHEMICAL TREATMENT SYSTEMS USED FOR ENHANCING THE SEDIMENTATION PROCESS AND HOW IT ACHIEVES COMPLIANCE WITH ITEM 9,18. [MINN. R. 7090]

5.23 THE SWPPP MUST IDENTIFY THE PERSON(S), ORGANIZATIONS, OR ENTITIES RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF PERMANENT STORMWATER TREATMENT SYSTEMS. [MINN. R. 7090]

5.24 THE SWPPP MUST DESCRIBE METHODS TO MINIMIZE SOIL COMPACTION AND PRESERVE TOPSOIL. MINIM COMPACTION IS NOT REQUIRED WHERE THE FUNCTION OF A SPECIFIC AREA DICTATES COMPACTION, [MINN, R. 7090] 5.25 THE SWPPP MUST INCLUDE ANY SITE ASSESSMENTS FOR GROUNDWATER OR SOIL CONTAMINATION REQUIRED IN ITEM

5.26 THE SWPPP MUST ACCOUNT FOR THE FOLLOWING FACTORS IN DESIGNING TEMPORARY EROSION PREVENTION AND

THE EXPECTED AMOUNT, FREQUENCY, INTENSITY, AND DURATION OF PRECIPITATION: AND

THE NATURE OF STORMMATER RUNDER AND RUND HAVE THE SITE, INCLUDING FACTORS SUCH AS EXPECTED FLOW FROM
IMPERVIOUS SURFACES, SLOPES, AND SITE DRAINAGE FEATURES; AND
THE STORMWATER VOLUME, VELOCITY, AND PEAK FLOWRATES TO MINIMIZE DISCHARGE OF POLLUTANTS IN
MAYATER AND TO MINIMIZE CHANNEL AND STREAMBANK EROSION AND SOUR IN THE IMMEDIATE VICINITY OF DISCHARGE

THE RANGE OF SOIL PARTICLES SIZES EXPECTED TO BE PRESENT. (MINN, R. 7090)

6.1 SWPPP AMENDMENTS. [MINN. R. 7090]

6.1 OWPT-T AVICENDMENT (3. [MININ: N. 1799)

6.2 ONE OF THE INDIVIDUALS DESCRIBED IN TERM 21.2.4 OR ITEM 21.2.8 OR ANOTHER QUALIFIED INDIVIDUAL MUST COMPLETE ALL SWPPP CHANCES, CHANGES INVOLVING THE USE OF A LESS TRINGENT BMF MUST INCLUDE A JUSTIFICATION DESCRIBING HOW THE REPLACEMENT BMF IS EFFECTIVE FOR THE SITE CHARACTERISTICS, MININE, TO SECRISSARY TO CORRECT FOR THE SITE CHARACTERISTICS, MININE, TO SECRISSARY TO CORRECT PROBLEMS (DESTRIPED AND ADDRESS STUDIES AND THE DESCRIBED AND ADDRESS STUDIES AND ADDRESS AND

SURFACE WATERS OR GRÖUNOWATER (MINN. R. 7890)
6.4 PERMITTERS MUST AMEND THE SWIPP 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, USER'A OR MINCA OFFICIALS MINICAST HE SWIPP IS NOT EFFECTIVE IN ELIMATING OR SIGNIFICANTLY MINIMIZING THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR REQUIRENTANT AT THE DISCHARGES ARE CAUSING WATER QUALITY STANDARD EXCEDANCES (E.G., NIDSARCE CONDITIONS AS DEFINED IN MINN. R. 7850.0210, SUBP. 2) OR THE SWIPP IS NOT CONSISTENT WITH THE OBJECTIVES OF A USERN APPROVED THIOL. (MINN. R. 7650.0210).

7.1 BMP SELECTION AND INSTALLATION. [MINN. R. 7090]

7.2 PERMITTEES MUST SELECT, INSTALL, AND MAINTAIN THE BMPS IDENTIFIED IN THE SWPPP AND IN THIS PERMIT IN AN APPROPRIATE AND FUNCTIONAL MANNER AND IN ACCORDANCE WITH RELEVANT MANUFACTURER SPECIFICATIONS AND

8.1 EROSION PREVENTION PRACTICES, IMINN. R. 7090]

8.2 BEFORE WORK BEGINS, PERMITTEES MUST DELINEATE THE LOCATION OF AREAS NOT TO BE DISTURBED, [MINN, R. 7090]

8.2 BEFORE WORK BEGINS, PERMITTEES MUST DELINEATE THE LOCATION OF AREAS NOT TO BE DISTURBED, (MINN. R. 709).

8.3 PERMITTEES MUST MINIMIZE THE NEED FOR DISTURBANCE OF PORTIONS OF THE PROJECT WITH STEEP SLOPES. WHEN STEEP SLOPES WITH STEEP SLOPES, WHEN STEEP SLOPES MUST BE DISTURBED, PERMITTEES MUST USE THE STABLIZATION PRACTICES DESIGNED FOR STEEP SLOPES (MC. 9. LOPE) CRAINING AND TERRACING), (MINN. R. 709)

8.4 PERMITTEES MUST STABILIZE ALL EXPOSED SOIL AREAS, INCLUDING STOCKPILES, STABILIZATION MUST BE INITIATED MINEDIATELY TO LIMIT SOIL EROSION WHEN CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CREASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 7 CALENDAR DAYS, STABILIZATION MUST BE COMPLETED ON LATER THAN 7 CALENDAR DAYS AFTER THE CONSTRUCTION ACTIVITY HAS DESECO, STABILIZATION IS NOT REQUIRED ON CONSTRUCTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 7 CALENDAR DAYS. STABILIZATION IS NOT REQUIRED ON CONSTRUCTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 7 CALENDAR DAYS. STABILIZATION IS NOT REQUIRED ON TEMPORARY STOCKPLES WHITH STABLIZATION AND SIMILAR SURFACES, STABILIZATION IS NOT REQUIRED ON TEMPORARY STOCKPLES, DEMOLITION CONCRETE STOCKPLES, AND STOCKPLES BUT PERMITTEES MUST FROMDE. SEDIMENT CONTROLS AT THE ABSE OF THE STOCKPLES, MANN A STOCKPLES BUT PERMITTEES MUST FROMDE.

8.5 FOR PUBLIC WATERS THAT THE MINNESOTA DNR HAS PROMULCATED "WORK IN WATER RESTRICTIONS" DURING SPECIFIED FISH SPAWNING TIME FRAMES, PERMITTEES MUST COMPLETE STABILIZATION OF ALL EXPOSED SOIL AREAS WITHIN 200 FEET OF THE WATER'S EDGE, AND THAT DRAIN TO THESE WATER'S, WITHIN 24 HOURS DURING THE RESTRICTION PERIOD, [MINN, R. 7080]

8.6 PERMITTEES MUST STABILIZE THE NORMAL WETTED PERIMETER OF THE LAST 200 LINEAR FEET OF TEMPORARY OR PERMANENT DRAWAGE DITCHES OR SWALES THAT DRAW MATER FROM THE SITE WITHIN 24 HOURS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE. PERMITTEES MUST COMPLETE STABILIZATION OF REMAINING PORTIONS TEMPORARY OR PERMANENT DITCHES OR SWALES WITHIN 7 CALENDAR DAYS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE AND CONSECUENT OF A SURFACE WATER OR PROPERTY EDGE AND CONSECUENT OR SURFACE WATER OR PROPERTY EDGE.

8.7 TEMPORARY OR PERMANENT DITCHES OR SWALES BEING USED AS A SEDIMENT CONTAINMENT SYSTEM DURING CONSTRUCTION (WITH PROPERLY DESIGNED ROCK-DITCH CHECKS, BIO ROLLS, BILT DIKES, ETC.) DO NOT NEED TO BE STABLIZED, PERMITTEES MUST STABLIZED, PARMITTEES MUST STABLIZED, PARMITTEES MUST STABLIZED, PARMITTEES AND STABLIZED, PARMITTEES AN STABILIZED, PERMITTEES MUST S SYSTEM CEASES. [MINN. R. 7090]

575 IEM (LESSES, [MININ, R. 1991)
8,8 PERMITTERS MUST NOT USE MUICH, HYDROMULCH, TACKIFIER, POLYACRYLAMIDE OR SIMILAR EROSION PREVENTION
PRACTICES WITHIN ANY PORTION OF THE NORMAL WEITTED PERIMETER OF A TEMPORARY OR PERIMAMENT DRAINAGE DITCH
OR SWALE SETTION WITH A CONTINUOUS SOPP OF GREATER THAN 2 PERIOD, (MININ, R. 1993)

8.9 PERMITTEES MUST PROVIDE TEMPORARY OR PERMANENT ENERGY DISSIPATION AT ALL PIPE OUTLETS WITHIN 24 HOURS AFTER CONNECTION TO A SURFACE WATER OR PERMANENT STORMWATER TREATMENT SYSTEM, (MINN. R., 7090) 8.10 PERMITTEES MUST NOT DISTURB MORE LAND (I.E., PHASING) THAN CAN BE EFFECTIVELY INSPECTED AND MAINTAINED IN ACCORDANCE WITH SECTION 11. [MINN. R. 7080]

9,1 SEDIMENT CONTROL PRACTICES, [MINN. R. 7090]

9.2 PERMITTEES MUST ESTABLISH SEDIMENT CONTROL BMPS ON ALL DOWNGRADIENT PERIMETERS OF THE SITE AND DOWNGRADIENT AREAS OF THE SITE THAT DRAIN TO ANY SURFACE WATER, INCLUDING CURB AND GUTTER SYSTEMS, PERMITTEES MUST LOCATE SEDIMENT CONTROL PRACTICES BURGANGIENT OF ANY SUFFER ZOMES, PERMITTEES MUST INSTALL SEDIMENT CONTROL PRACTICES BEFORE ANY UPOR ADJECT LAND-DISTURBING ACTIVITIES SEGIN AND MUST KEEP THE SEDIMENT CONTROL PRACTICES IN PLACE UNIT, THEY SESTIMALISH PERMANENT COVER, DWIN, I. 7 7080]

SEDIMENT CONTINUE PROCLICES IN PLACE UNTIL THE EVABLED THE EVABLED THE WASHINGTON THE PROCLICES IN PLACE WHITE AND THE PROCLICES IN PLACE WASHINGTON TO AN EXPOSED THE PROCLICE OF THE PROCLICES OF REDUNDANT BANKS REQUIREMENTS, PERMITTEES MUST INSTALL ADDITIONAL UPGROLENT SEDIMENT CONTROL PRACTICES OR REDUNDANT BANKS TO ELIMINATE THE OVERLOADING AND AMEND THE SWIPP TO IDENTIFY THESE ADDITIONAL PRACTICES AS REDUNDANT BANKS.

D.S. JEMPORARY 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. JUNN. R. 7091

APPROPRIATE FOR SITE CONDITIONS, ISIAN, K. 7690]

8.5, A FLOATING SITE CURRANT PLACED IN THE WATER IS NOT A SEDIMENT CONTROL BMP TO SATISFY ITEM 9.2 EXCEPT WHEN WORKING ON A SHORELINE OR BELOW THE WATERLINE. IMMEDIATELY AFTER THE SHORT TERM CONSTRUCTION ACTIVITY (E.S., INSTALLATION OF RIP RAP ALONG THE SHORELINE) IN THAT AREA IS COMPLETE, PERMITTES MUST INSTALL AN UPLAND PERMITTER CONTROL PRACTICE IF EXPOSED SOILS STILL DRAIN TO A SURFACE WATER (MINN. R. 7090)

PERINDER CONTINUE PROJECT PARTIES IN A PROSESSION OF THE OFFICE AND A SOUTHER THREE MINIST RE-INSTALL ALL SEDIMENT CONTROL PRACTICES ADJUSTED OR REMOVED TO ACCOMMODATE SHORT-TERM ACTIVITIES SUCH AS CLEARING OR GRUBBING, OR PASSAGE OF VEHICLES, IMMEDIATELY AFTER THE SHORT-TERM ACTIVITY IS COMPLETED, PERMITTEES MUST RE-INSTALL SEDIMENT CONTROL PRACTICES BEFORE THE NEXT PRECIPITATION EVENT EVEN IF THE SHORT-TERM ACTIVITY IS NOT COMPLETE. [MINN. R. 7080]

9.7 PERMITTEES MUST PROTECT ALL STORM DRAIN INLETS USING APPROPRIATE BMPS DURING CONSTRUCTION UNTIL THEY ESTABLISH PERMANENT COVER ON ALL AREAS WITH POTENTIAL FOR DISCHARGING TO THE INLET, [MINN, R, 7690]

9.8 PERMITTEES MAY REMOVE INLET PROTECTION FOR A PARTICULAR INLET IF A SPECIFIC SAFETY CONCERN (E.G. STREET FLOODING/FREEZING) IS IDENTIFIED BY THE PERMITTEES OR THE JURISDICTIONAL AUTHORITY (E.G., CITY/COUNTY/OWNSHIPMININNESOTA DEPARTMENT OF TRANSPORTATION ENGINEER), PERMITTEES MUST DOCUMENT THE NEED FOR REMOVAL IN THE SWPPP, [MINN. R, 7080] 9.9 PERMITTEES MUST PROVIDE SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROLS AT THE BASE OF STOCKPILES ON THE DOWNGRADIENT PERIMETER, MINN. R. 7090]

.10 PERMITTEES MUST LOCATE STOCKPILES OUTSIDE OF NATURAL BUFFERS OR SURFACE WATERS, INCLUDING STORMWATER CONVEYANCES SUCH AS CURB AND GUTTER SYSTEMS UNLESS THERE IS A BYPASS IN PLACE FOR THE STORMWATER CONVETANCES

9.11 PERMITTEES MUST INSTALL A VEHICLE TRACKING BMP TO MINIMIZE THE TRACK OUT OF SEDIMENT FROM THE CONSTRUCTION SITE OR ONTO PAVED ROADS WITHIN THE SITE, [MINN. R. 7690] 9.12 PERMITTEES MUST USE STREET SWEEPING IF VEHICLE TRACKING BMPS ARE NOT ADEQUATE TO PREVENT SEDIMENT TRACKING ONTO THE STREET, (MINN. R. 7090)

9.13 DERMITTEES MUST INSTALL TEMPORARY SEDIMENT BASINS AS REQUIRED IN SECTION 14 IMINN. R. 70901 9.14 IN ANY AREAS OF THE SITE WHERE FINAL VEGETATIVE STABILIZATION WILL OCCUR, PERMITTEES MUST RESTRICT VEHICLE AND EQUIPMENT USE TO MINIMIZE SOIL COMPACTION, MINN, R. 70901

9.15 PERMITTEES MUST PRESERVE TOPSOIL ON THE SITE, UNLESS INFEASIBLE, [MINN, R, 7090]

9.16 PERMITTEES MUST DIRECT DISCHARGES FROM BMPS TO VEGETATED AREAS UNLESS INFEASIBLE, MININ, R. 7000]
9.17 PERMITTEES MUST PRESERVE AS POOT NATURAL BUFFER OR, IF A BUFFER IS INFEASIBLE, MININ, R. 7000]
9.17 PERMITTEES MUST PRESERVE AS POOT NATURAL BUFFER OR, IF A BUFFER IS INCATED WITHIN 50 FEET OF THE
PROJECTS EARTH DISTURBANCES AND STORMATER FLOWS TO THE SUFFACE WATER PERMITTEES MUST INSTALL
PERMITTEES MUST USE OF THE PROVIDED BY LACK OF AVAILABLE SPACE. NATURAL BUFFERS
ARE NOT REQUIRED ADJACENT TO ROAD DITCHES, JUDICIAL DITCHES, COUTY DITCHES, STORMATER CONVEYANCE
CHANNELS, STORM BRAIN INLETS, AND SEDIMENT BASINS, IF PRESERVING THE BUFFER IS INFEASIBLE, PERMITTEES MUST
DOCUMENT THE REASONS IN THE SWIPPS ISSEET PILING IS AR EDUINDANT PERMITTER MUST USE TO MANUAL THE MANNELS, STORM WATER CONVEYANCE
WITH ACCEPTED SINGING PROLIMERS, LOCCULANTS, OR OTHER SEDIMENTATION TREATMENT CHEMICALS IN ACCORDANCE
WITH ACCEPTED SINGINEERING PRACTICES, DOSING SPECIFICATIONS AND SEDIMENT REMOVAL DESIGN SPECIFICATIONS
PROVIDED BY THE MANUFACTURE OF THE MANUE AND MANUEL THE MANUEL OF THE PROVIDED BY THE MANUFACTURE OF THE MANUEL MANUEL STATES. 9.16 PERMITTEES MUST DIRECT DISCHARGES FROM BMPS TO VEGETATED AREAS UNLESS INFEASIBLE, IMINN. R, 7090]

10.1 DEWATERING AND BASIN DRAINING, IMINN, R. 70901

10.1 DEWATERING AND BASIN DYNINING. [MINN. N. 7090]

10.2 PERMITTES MUST DISCHARGE TURBIO OR SEDIMENT-LADEN WATERS RELATED TO DEWATERING OR BASIN DRAINING (E.G., PUMPED DISCHARGES, TRENCHOPITCH CUTS FOR DRAINAGE) TO A TEMPORARY OR PERMANENT SEDIMENT BASIN ON PROLICET SITE UNLESS INFEASIBLE, PERMITTESS MAY DEWATER TO SURFACE WATERS IT THEY VISUALLY CHECK TO ENSURE ADEQUATE TREATMENT HAS BEEN OBTAINED AND MUISANCE CONDITIONS (SEE MINN. R. 7050,219, SUBP. 2) WILL NOT RESURT FROM THE DISCHARGE IN PERMITTESS AND TO SICKARGE HE WATER TO A SEDIMENTATION BASIN PRIOR TO ENTENING A SURFACE WATER, PERMITTESS MUST TREAT IT WITH A PPROPRIATE BINFS SUCH THAT THE DISCHARGE DOES NOT ADVERSELY AFFECT THE SUFFACE WATER, PERMITTESS MUST TREAT IT WITH A PPROPRIATE BINFS SUCH THAT THE DISCHARGE DOES NOT ADVERSELY AFFECT THE SUFFACE WATER OR DOWNSTREAM PPORPETRIES, BINN. R. 7050,0213]

10.3 IF PERMITTEES MUST DISCHARGE WATER CONTAINING OIL OR GREASE, THEY MUST USE AN OIL-WATER SEPARATOR OR SUITABLE FILTRATION DEVICE (E.G., CARTRIDGE FILTERS, ABSORBENTS PADS) PRIOR TO DISCHARGE, [MINN, R. 7090] 10.4 PERMITTEES MUST DISCHARGE ALL WATER FROM DEWATERING OR BASIN-DRAINING ACTIVITIES IN A MANNER THAT DOES NOT GAUSE EROSION OR SCOUR IN THE IMMEDIATE VICINITY OF DISCHARGE POINTS TO BE REMOVED THE WEST AND SIGNING WHICH AND SIGNIFICANT ADVERSE IMPACT TO THE WEST AND, KIMM. R. 7680) IMMEDIALE VIGINITY OF DISCHARGE PUBLISHES HEAD LOSSES SIGNIFICATION INVESTIGATION TO THE RETURNING FROM THE ADDRESS AND THE SEARCH AND THE SEARCH WAS HAVE A WAY FOR DISPOSAL, RETURN THE BACKWASH WATER NOW THE BEGINNING OF THE TREATMENT PROCESS, OR INCORPORATE THE BACKWASH WATER TO THE BECKINNING OF THE TREATMENT PROCESS, OR INCORPORATE THE BACKWASH WATER INTO THE SITE IN A MANINER THAT DOES NOT CAUSE EROSION, MINN. R. 70801

11.1 INSPECTIONS AND MAINTENANCE, IMINN, R. 7090)

11.2 PERMITTEES MUST ENSURE A TRAINED PERSON, AS IDENTIFIED IN ITEM 21,28, WILL INSPECT THE ENTIRE CONSTRUCTION SITE AT LEAST ONCE EVERY SEVEN (7) DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 1/2 INCH IN 24 HOURS, MINN. R. 7089)

11.3 PERMITTEES MUST INSPECT AND MAINTAIN ALL PERMANENT STORMWATER TREATMENT BMPS. [MINN. R. 7090] 11.13 FERMITTEES MUST INSPECT ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPS AND POLLUTION PREVENTION MANAGEMENT MEASURES TO ENSURE INTEGRITY AND EFFECTIVENESS. PERMITTEES MUST REPPAR, REPLACE OR SUPPLEMENT ALL NON-FUNCTIONAL BMPS WITH FUNCTIONAL BMPS BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY UNLESS ANOTHER TIME FRAME IS SPECIFIED IN ITEM 11.5 OR 11.6. PERMITTEES MAY TAKE ADDITIONAL TIME IF FIELD CONDITIONS PREVENT ACCESS TO THE AREA (MINN. R. 7009 C.)

PREVENT ACCESS TO THE AREA, MINN. R. 7080]

11.5. DURING EACH INSPECTION, PERMITTES MUST INSPECT SURFACE WATERS, INCLUDING DRAINAGE DITCHES AND CONVEYANCE SYSTEMS BUT NOT CURB AND GUTTER SYSTEMS, FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION, PERMITTESS MUST REMOVE ALL DELTAS AND SEDIMENT DEPOSITION, AND SEDIMENT DEPOSITION, CATCH BASINS, AND OTHER DRAINAGE WAYS, OF THE AREAS WHERE SEDIMENT REMOVAL RESULTS IN EXPOSED SOIL, PERMITTEES MUST CHEER CHOOKA, AND STRAILIZATION WITHIN SEVER IN CALLEDAD AND THE REMOVAL RESULTS IN EXPOSED SOIL, PERMITTEES MUST LOSE ALL REGIONAL, STRAIN ACCESS CONSTRAINTS, PERMITTEES MUST LOSE ALL RESOLVABLE FERROLDS AND STRAIN SOIL OF ALL STRAIN ACCESS. THE RESPONDAGE OF THE OTHER CONTROL OF THE RESPONDAGE OF THE CONTROL OF THE REGIONAL, STRAIN AND THE AND FEDERAL AUTHORTIES AND RECEIVING ANY APPLICABLE PERMITS, PRIOR TO CONDUCTING ANY WORK IN SURFACE WATERS, MINN, R. 7000

1.1.6 PERMITTEES MUST INSPECT CONSTRUCTION SITE VEHICLE EXIT LOCATIONS, STREETS AND CURB AND GUTTER SYSTEMS WITHIN AND ADJACENT TO THE PROJECT FOR SEDIMENTATION FROM EROSION OR TRACKED SEDIMENT FROM VEHICLES. PERMITTEES MUST REMOVE SEDIMENT FROM ALL PAVED SURFACES WITHIN ONE (1) CALENDAR DAY OF DISCOVERY OR, IF APPLICABLE, WITHIN A SHORTER TIME TO AVOID A SAFETY HAZARD TO USERS OF PUBLIC STREETS. (MINN. R. 7997)

11,7 PERMITTEES MUST REPAIR, REPLACE OR SUPPLEMENT ALL PERIMETER CONTROL DEVICES WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES 1/2 OF THE HEIGHT OF THE DEVICE, [MINN. R. 7090]

11.8 PERMITTEES MUST DRAIN TEMPORARY AND PERMANENT SEDIMENTATION BASINS AND REMOVE THE SEDIMENT WHEN THE DEPTH OF SEDIMENT COLLECTED IN THE BASIN REACHES 1/2 THE STORAGE VOLUME, [MINN, R, 7090] 11,9 PERMITTEES MUST ENSURE THAT AT LEAST ONE INDIVIDUAL PRESENT ON THE SITE (OR AVAILABLE TO THE PROJECT SITE IN THREE (3) CALENDAR DAYS) IS TRAINED IN THE JOB DUTIES DESCRIBED IN ITEM 21,2,B. (MINN, R, 7990)

11,10 PERMITTEES MAY ADJUST THE INSPECTION SCHEDULE DESCRIBED IN ITEM 11.2 AS FOLLOWS: 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 DNCE 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

IF CONDITIONS WARRANT, OR.

C. YHHERE 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, (MINN. R. 7009).

11.11 PERMITTEES MUST RECORD ALL INSPECTIONS AND MAINTENANCE ACTIVITIES WITHIN 24 HOURS OF BEING CONDUCTED AND THESE RECORDS MUST BE RETAINED WITH THE SWIPP. THESE RECORDS MUST INCLUDE:

A. DATE AND TIME OF INSPECTIONS: AND

C. ACCURATE FINDINGS OF INSPECTIONS, INCLUDING THE SPECIFIC LOCATION WHERE CORRECTIVE ACTIONS ARE NEEDED;

D. CORRECTIVE ACTIONS TAKEN (INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES); AND E. DATE OF ALL RAINFALL EVENTS GREATER THAN 1/2 INCHES IN 24 HOURS, AND THE AMOUNT OF RAINFALL FOR EACH EVENT. PERMITTEES MUST OBTAIN RAINFALL AMOUNTS BY EITHER A PROPERLY MAINTAINED RAIN GAUGE INSTALLED ONSITE, A VERHITTEES TATION THAT IS WITHIN ONE (1) MILE OF YOUR LOCATION, OR A WEATHER REPORTING SYSTEM THAT PROVIDES SITE SPECIFIC RAINFALL DATA FROM RADAR SUMMARIES, AND

F. IF PERMITTEES OBSERVE A DISCHARGE DURING THE INSPECTION, THEY MUST RECORD AND SHOULD PHOTOGRAPH AND DESCRIBE THE LOCATION OF THE DISCHARGE (I.E., COLOR, ODOR, SETTLED OR SUSPENDED SOLIDS, OIL SHEEN, AND OTHER DRYDLES HOPE OF THE LOTHER OF SUSPENDED SOLIDS.

G, ANY AMENDMENTS TO THE SWPPP PROPOSED AS A RESULT OF THE INSPECTION MUST BE DOCUMENTED AS REQUIRED IN SECTION 6 WITHIN SEVEN (7) CALENDAR DAYS, IMINN, R. 70901

12.1 POLLUTION PREVENTION MANAGEMENT MEASURES, [MINN, R. 7090]

12.2 PERMITTEES MUST PLACE BUILDING PRODUCTS AND LANDSCAPE MATERIALS UNDER COVER (E.G., PLASTIC SHEETING OR TEMPORARY ROOFS) OR PROTECT THEM BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WITH STORMWATER, PERMITTEES ARE NOT REQUIRED TO COVER OR PROTECT PRODUCTS WHICH ARE EITHER NOT A SOURCE OF CONTAMINATION TO STORMWATER OR ARE DESIGNED TO BE EXPOSED TO STORMWATER, (MINN. R. 7080) 12.3 PERMITTEES MUST PLACE PESTICIDES, FERTILIZERS AND TREATMENT CHEMICALS UNDER COVER (E.G., PLASTIC SHEETING OR TEMPORARY RODES) OR PROTECT THEM BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WITH

WATER, IMINN, R. 70901 STOKMWATER, MINN. K. 7881

124 PERMITTES MUST STORE HAZARDOUS MATERIALS AND TOXIC WASTE, (INCLUDING OIL, DIESEL FUEL, GASOLINE, HYDRAULIC FLUIDS, PAINT SOLVENTS, PETROLEUM-BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING COMPOUNDS, AND ACIDS) IN SEALED CONTAINERS TO PREVENTS SPILLS, LEAKS OR OTHER DISCHARGE. STORAGE AND DISPOSAL OF HAZARDOUS WASTE MATERIALS MUST BE IN COMPLIANCE WITH MINN, R. CH. 7045 INCLUDING SECONDARY CONTAINMENT AS APPLICABLE, IMMN. R. 7090.

12.5 PERMITTEES MUST PROPERLY STORE, COLLECT AND DISPOSE SOLID WASTE IN COMPLIANCE WITH MINN. R. CH. 7035, IMINN. R. 7035]

12.6 PERMITTEES MUST POSITION PORTABLE TOILETS SO THEY ARE SECURE AND WILL NOT TIP OR BE KNOCKED OVER, PERMITTEES MUST PROPERLY DISPOSE SANITARY WASTE IN ACCORDANCE WITH MINN. R, CH, 7041, [MINN, R, 7041] 12.7 PERMITTEES MUST 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 PANS OR ASDORBATS UNES STREETE CHEMICALS OR FUEL WILL BE LOADED OR UNLOADED INCLUDIO THE USE OF DRIP PANS OR ASDORBATS UNLESS INFEASIBLE, PERMITTEES AUST 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, PERMITTEES MUST REPORT AND CLEAN UP SPILLS IMMEDIATELY AS REQUIRED BY MINN, STAT, 115.081, USING DRY CLEAN UP MEASURES WHERE POSSIBLE, MINN, STAT, 115.081

USING UNIT VALENT OF MERODICES WRITER POSSIBLE, (MINER, STALL) FLAVOR)

12.8 PERMITTES MUST LIMIT VEHICLE EXTERIOR WASHING AND EQUIPMENT TO A DEFINED AREA OF THE SITE, PERMITTEES
MUST CONTAIN RUNOFF FROM THE WASHING AREA IN A SEDIMENT BASIN OR OTHER SIMILARLY EFFECTIVE CONTROLS AND
MUST DISPOSE WASTE FROM THE WASHING ACTIVITY PROPERLY, PERMITTEES MUST PROPERLY USE AND STORE SOAPS,
DETERGENTS, OR SOLVENTS. (MINN. R. 7090)

DELENGENTS, OR SOLVENTS, IMINN. R. 7,090]

ADJERNITIESES MUST REVIVED EFFECTIVE CONTAINMENT FOR ALL LIQUID AND SOLID WASTES GENERATED BY WASHOUT OFFERS HOLD SOLID WASTES GENERATED BY WASHOUT OFFERS HOLD SOLID WASTES GENERATED BY WASHOUT AND ADJECT OF THE CONTRIBUTION OFFERS HOLD SOLID WASHOUT WASTES WASTES HEALTED TO THE CONSTRUCTION ACTIVITY. PERMYTHESE MUST PREVENT LIQUID AND SOLID WASHOUT WASTES FROM CONTRICTING THE GROUND AND MUST DESIGN THE CONTAINMENT SO IT DOES NOT RESULT IN RUNOFF FROM THE WASHOUT OFFERS MUST PROPERLY DISPOSE LIQUID AND SOLID WASTES IN COMPLIANCE WITH MPCA RULES, PERMITTEES MUST PROPERLY DISPOSE LIQUID AND SOLID WASTES IN COMPLIANCE WITH MPCA RULES, PERMITTEES MUST ROPERLY DISPOSE LIQUID AND SOLID WASTES IN COMPLIANCE WITH MPCA RULES, PERMITTEES MUST INSTALL A SIGN INDICATING THE LOCATION OF THE WASHOUT FACILITY, MINN, R. 7035, MINN, R. 7030]

13.1 PERMIT TERMINATION CONDITIONS. [MINN. R. 7090]

13.2 FERMITTEES MUST COMPLETE ALL CONSTRUCTION A CITYITY 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 TO 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, MINN. R. 7090]

3.3 PERMITTEES MUST CLEAN THE PERMANENT STORMWATER TREATMENT SYSTEM OF ANY ACCUMULATED SEDIMENT NUST ENSURE THE SYSTEM MEETS ALL APPLICABLE REQUIREMENTS IN SECTION 15 THROUGH 19 AND IS OPERATING AS

13 4 PERMITTEES MUST REMOVE ALL SEDIMENT FROM CONVEYANCE SYSTEMS PRIOR TO SUBMITTING THE NOT. IMINN, R. 70901 13.5 PERMITTEES MUST REMOVE ALL TEMPORARY SYNTHETIC EROSION PREVENTION AND SEDIMENT CONTROL BMPS PRIOR TO SUBMITTING THE NOT. PERMITTEES MAY LEAVE BMPS DESIGNED TO DECOMPOSE ON-SITE IN PLACE. [MINN. R. 7090] 13,6 FOR RESIDENTIAL CONSTRUCTION ONLY, PERMIT COVERAGE TERMINATES ON INDIVIDUAL LOTS IF THE STRUCTURES ARE FINISHED AND TEMPORAY EROSION PREVENTION AND DOWNGRADIENT PERMITER CONTROL IS COMPLETE, THE RESIDENCE SELLS TO THE HOMEOWNER, AND THE PERMITTED DISTRIBUTES THE MPCA'S "HOMEOWNER FACT SHEET" TO THE HOMEOWNER, MIN. R. 7080]

13.7 FOR CONSTRUCTION PROJECTS ON AGRICULTURAL LAND (E.G., PIPELINES ACROSS CROPLAND), PERMITTEES MUST RETURN THE DISTURBED LAND TO ITS PRECONSTRUCTION AGRICULTURAL USE PRIOR TO SUBMITTING THE NOT. [MINN. R. 7090]

14.1 TEMPORARY SEDIMENT BASINS, [MINN, R. 7090]

14.2 WHERE FIVE (5) OR MORE ACRES OF DISTURBED SOIL DRAIN TO A COMMON LOCATION, PERMITTEES MUST PROVIDE A TEMPORARY SEDMENT BASIN TO PROVIDE TREATMENT OF THE RUNOFF BEFORE IT LEAVES THE CONSTRUCTION SITE OR ENTEROPERARY SEDMENT BASIN AT THE SHOP ACTION OF THE SUPPACE WATERS, PERMITTEES MAY CONVERT A TEMPORARY SEDMENT BASIN AT A PERMANENT BASIN AT SECURITY OF THE CONSTRUCTION IS COMPLETE. THE TEMPORARY BASIN IS NO LONGER REQUIRED WHEN PERMANENT BASIN AT REDUCED THE ACREAGE OF DISTURBED SOIL TO LESS THAN FIVE (6) ACRES DRAINING TO A COMMON LOCATION, [PROVISIONS TO MINN, R. 7090]

1.43, THE TEMPORARY BASIN MUST PROVIDE LIVE STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A TWO (2)-YEAR, 24-HOUR STORM FROM EACH ACKE DRAINED TO THE BASIN OR 1,800 CUBIG FEET OF LIVE STORAGE PER ACRE DRAINED, WHICHEVER IS GREATER, IMMN. R, 7030]

14.4 WHERE PERMITTEES HAVE NOT CALCULATED THE TWO (2)-YEAR, 24-HOUR STORM RUNDFF AMOUNT, THE TEMPORARY BASIN MUST PROVIDE 3,600 CUBIC FEET OF LIVE STORAGE PER ACRE OF THE BASINS' DRAINAGE AREA, [MINN, R, 7090] 14.5 PERMITTEES MUST DESIGN BASIN OUTLETS TO PREVENT SHORT-CIRCUITING AND THE DISCHARGE OF FLOATING DEBRIS.
MINN. R. 7090)

INITION, A LYBUM,

14.5 PERMITTEES MUST DESIGN THE OUTLET STRUCTURE TO WITHDRAW WATER FROM THE SURFACE TO MINIMIZE THE
DISCHARGE OF POLLUTANTS, PERMITTEES MAY TEMPORARILY SUSPEND THE USE OF A SURFACE WITHDRAWAL MECHANISM
DURING FROZEN CONDITIONS. THE BASIN MUST INCLUDE A STABILIZED EMERGENCY OVERFLOW TO PREVENT FAILURE OF
DANN INTERPITY ANNIN B. JOHN DURING FROZEN CONDITIONS, TI POND INTEGRITY, (MINN, R. 7090)

14.7 PERMITTEES MUST PROVIDE ENERGY DISSIPATION FOR THE BASIN OUTLET WITHIN 24 HOURS AFTER CONNECTION TO A SURFACE WATER, MINN, R. 70901 14.8 PERMITTEES MUST LOCATE TEMPORARY BASINS OUTSIDE OF SURFACE WATERS AND ANY BUFFER ZONE REQUIRED IN ITEM 23.11, [MINN. R. 7090]

14,9 PERMITTEES MUST CONSTRUCT THE TEMPORARY BASINS PRIOR TO DISTURBING 10 OR MORE ACRES OF SOIL DRAINING TO A COMMON LOCATION, [MINN, R, 7090]

TO A COMMON LOCATION, [MINN. R, 7990]

14.10 WHERE A TEMPORARY SEDIMENT BASIN MEETING THE REQUIREMENTS OF ITEM 14.3 THROUGH 14.9 IS INFEASIBLE,
PERMITTEES MUST INSTALL EFFECTIVE SEDIMENT CONTROLS SUCH AS SWALLER SEDIMENT BASINS AND/OR SEDIMENT TRAPS,
SILT FERNES, VEGETATIVE BUFFER STRIPS OR ANY APPROPRIATE COMBINATION OF MEASURES AS DICTATED BY HID/VIDUAL
SITE CONDITIONS, IN DETERMINING WHETHER INSTALLING A SEDIMENT BASIN IS INFEASIBLE, PERMITTEES MUST
DOCUMENT THIS DETERMINATION OF INFEASIBLITY IN THE SWPPPE, (MINN. R, 7990).

DOCUMENT THIS DETERMINATION OF INFEASIBILITY IN THE SWPPPE, (MINN. R, 7990).

15.1 PERMANENT STORMWATER TREATMENT SYSTEM, IMINN, R. 70901

15.2 PERMITTEES MUST DESIGN THE PROJECT SO ALL STORMWATER DISCHARGED FROM THE PROJECT DURING AND AFTER CONSTRUCTION ACTIVITIES DOES NOT CAUSE A VIOLATION OF STATE WATER QUALITY STANDARDS, INCLUDING NUISANCE CONDITIONS, EROSIGN IN RECEIVING CHAINES OR ON DOWNSLOPE PROPERTIES, OR A SIGNIFICANT ADVERSE IMPACT TO WETLANDS CAUSED BY INUNDATION OR DECREASE OF FLOW, (MINN. R. 7080)

THE LOVING MASSED IN INCIDENTIAL OF DECRESSED OF FLAVIE, MAINTE, IN 1991

IT 3, PERMITTEES MUST DESIGN AND CONSTRUCT A PERMANDENT STORMWATER TREATMENT SYSTEM TO TREAT THE V
QUALITY VOLUME IF THE PROJECT'S ULTIMATE DEVELOPMENT REPLACES VEGETATION AND/OR OTHER PERVIOUS SUI
CREATING A RET INCREASE OF ONE (1) OR MORE ACRES OF COMUNICATIVE IMPREVIOUS SURFACE, (MINN. A). 15.4 PERMITTEES MUST CALCULATE THE WAYER QUALITY VOLUME AS ONE (1) INCH TIMES THE NET INCREASE OF IMPERVIOUS SURFACES CREATED BY THE PROJECT, (MINN, R, 7090)

15.5 PERMITTEES MUST FIRST CONSIDER VOLUME REDUCTION PRACTICES ON-SITE (E.G., INFILTRATION OR OTHER) WHEN DESIGNING THE PERMANENT STORAWATER TREATMENT SYSTEM, IF THIS PERMIT PROHIBITS INFILTRATION AND DESCRIBED INTENT 15.1 THEM 15.14 THOROUGH THEM 16.2, I PERMITTEES MAY CONSIDER A WET SEDIMENTATION ASIN, ILTRATION ASIN OR REGIONAL POND. THIS PERMIT DOES NOT CONSIDER WET SEDIMENTATION BASINS AND FILTRATION SYSTEMS TO BE VOLUME REDUCTION PRACTICES, (MINN. R. 7080)

15.5 PERMITTEES MUST FIRST CONSIDER VOLUME REDUCTION PRACTICES ON-SITE (E.G., INFILTRATION OR OTHER) WHEN DESIGNING THE PERMANENT STORMWATER TREATMENT SYSTEM, IF THIS PERMIT PROHIBITS INFILTRATION AS DESCRIBED ITEM 16, 14 THOROUGH TIEM 16, 21, PERMITTEES MAY CONSIDER A WET SEDIMENTATION ABOSIN, FILTRATION BASSING REGIONAL POND, THIS PERMIT DOES NOT CONSIDER WET SEDIMENTATION BASINS AND FILTRATION ASSING REGIONAL PRACTICES, MINN. R. 73091

1.6 FOR PROJECTS WHERE THE FULL VOLUME REDUCTION REQUIREMENT CANNOT BE MET ON-SITE, (E.G., THE SITE HAS INFILTRATION PROHIBITIONS), PERMITTEES MUST DOCUMENT THE REASONS IN THE SWPPP, (MINN. R. 7090) 15.7 PERMITTERS MUST DISCHARGE THE WATER QUALITY VOLUME TO A PERMANENT STORMAYTER TREATMENT SYSTEM PRIOR TO DISCHARGE TO A SURFACE WATER. FOR PURPOSES OF THIS ITEM, SURFACE WATERS DO NOT INCLUDE MAYAMADET STORMAYTER THAT

15.8 WHERE THE PROXIMITY DEBORGY PRECLUDES THE INSTALLATION OF ANY OF THE PERMANENT SYSTEM, RIMN. R. 7090;

15.8 WHERE THE PROXIMITY TO SEDROKY PRECLUDES THE INSTALLATION OF ANY OF THE PERMANENT STORMANTER
TREATMENT PRACTICES REQUIRED BY SECTIONS 15 THROUGH 19, PERMITTEES MUST INSTALL OTHER TREATMENT SUCH AS
GRASSED SWALES, SMALLER PONDS, OR GRIT CHAMBERS, PRIOR TO THE DISCHARGE OF STORMWATER TO SURFACE WATER
RIMNN. R. 7090.

(MMN. R. 7000)

1.5. FOR LINEAR PROJECTS WHERE PERMITTEES CANNOT TREAT THE ENTIRE WATER QUALITY VOLUME WITHIN THE EXISTING RIGHTOF-WAY, PERMITTEES MUST MAKE A REASONABLE ATTEMPT TO GOTAIN ADDITIONAL RIGHT-OF-WAY EASEMENT OR OTHER PERMISSION FOR STORMWATER TREATMENT OR QUENCY PLANNING PROCESS, DOCUMENTATION OF THESE ATTEMPTS MUST BE IN THE WHYPPP, PERMITTEES MUST STILL CONSIDER VOLUME REDUCTION PRACTICES RISK AD DESCRIBED IN TERM 15.5. IF PERMITTEES CANNOT DISTAIN ADDITIONAL RIGHT-OF-WAY, EASEMENT OR OTHER PERMISSION, THEY MUST STILL REASTMENT OF THE WATER QUALITY VOLUME PRIOR TO TO THE MAGREG TO SURFACE WATERS, (MMN. R. 7060)

16,1 INFILTRATION SYSTEMS. [MINN. R. 7090]

10.2 LIFILITATION OPTIONS INFOLLUDE, BUT ARE NOT LIMITED TO: INFILTRATION BASINS, INFILTRATION TRENCHES, RAINWATER GARDENS, BIORETENTION AREAS WITHOUT LINDERDRAINS, SWALES WITH IMPERMEABLE CHECK DAMS, AND NATURAL DEPRESSIONS. IF PERMITTEES UTILIZE AN INFILTRATION SYSTEM TO MEET THE REQUIREMENTS OF THIS PERMITTER, INTIRE AND INFILTRATION SYSTEM TO MEET THE REQUIREMENTS OF THIS PERMITTER HISTORY THE MUST INFORMATION FOR THE OFFICE AND THE BASE OF ICE AND THE BASE OFFI THE BASE OF THE OFFICE AND THE BASE OF THE OFFI THE BASE OFFI THE BASE OF THE OFFI THE BASE OFFI PERMIT, IMINN, R. 7090)

18.3 PERMITTEES MUST DESIGN INFILTRATION SYSTEMS SUCH THAT PRE-EXISTING HYDROLOGIC CONDITIONS OF WETLANDS IN THE WIGHTLY ARE NOT IMPACTED (E.G., INUNDATION OR BREACHING A PERCHED WATER TABLE SUPPORTING A WETLAND). [MINN. R. 7090]

(MINN, K. USU)

16.4 PERMITTEES MUST NOT EXCAVATE INFILITATION 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 INFILITATION AREA, MINN, R. 7080]

INSE, WHEN EXCAVATING AN INFILITATION SYSTEM TO WITHIN THREE (3) FEET OF FINAL GRADE, PERMITTEES MUST STAKE OFF AND MARK THE AREA SO HEAVY CONSTRUCTION VEHICLES OR EQUIPMENT DO NOT COMPACT THE SOIL IN THE INFILITRATION AREA, MINN. R, 7000]

AREA, [MNN, R, 7090]

IR, PERMITTEES MUST USE A PRETREATMENT DEVICE SUCH AS A VEGETATED FILTER STRIP, FOREBAY, OR WATER QUALITY INLET (E.G., GRIT CHAMBER) TO REMOVE SOLIDS, FLOATING MATERIALS, AND DIL AND GREASE FROM THE RUNOFF, TO THE MAXIMUM EXTERN FRACTICABLE, BEFORE THE SYSTEM ROUTES STORMWATER TO THE INPLITATION SYSTEM, [MINN, R, 7090]

18,7 PERMITTEES MUST DESIGN INFILTRATION SYSTEMS TO PROVIDE A WATER QUALITY VOLUME (CALCULATED AS AN INSTANTANEOUS VOLUME) OF THE RUNOFF, OR ONE (1) INCH MINUST THE VOLUME (OF STORMWATER TREATED BY ANOTHER SYSTEM ON THE STR., FROM THE NET INCREASE OF IMPERIVIOUS SURFACES CREATED BY THE PROLECT, MINN R.

7890]
16 S PERMITTEES MUST DESIGN THE INFILTRATION SYSTEM TO DISCHARGE ALL STORMWATER (INCLUDING STORMWATER IN EXCESS OF THE WATER QUALITY VOLUME) ROUTED TO THE SYSTEM THROUGH THE UPPERMOST SOIL SURFACE OR REGINERED BEDIS DUST ROUTE ADDITIONAL FLOWS THAT CANNOT INFILTRATE WITHIN 48 HOURS TO SYPASS THE SYSTEM THROUGH A STABILIZED DISCHARGE POINT, MINN, R. 7090]
18,9 PERMITTEES MUST PROVICE A MEANS TO VISUALLY VERIFY THE INFILTRATION SYSTEM IS DISCHARGING THROUGH THE SOIL SURFACE OR FILTER NEED A SURFACE WITHIN 48 HOURS OR LESS, MINN, R. 7090]

SOIL SURFACE OR RILTER MEDIA SURFACE WITHIN 48 HOURS OR LESS, MINN. R. 7099)

16.10 PERMITTERS MUST PROVIDE AT LEAST ONE SOIL BORNING, TEST PIT OR INFILITMENTER TEST IN THE LOCATION OF THE INFILITRATION PRACTICE FOR DETERMINING INFILITRATION RATES, MINN. R. 7099)

16.11 FOR DESIGN PURPOSES, PERMITTEES MUST DUPLE FIELD MEASURED INFILITRATION RATES BY 2 AS A SAFETY FACTOR OR PERMITTEES CAN USE SOIL-BORNICA RESULTS WITH THE INFILIRATION RATE CHART IN THE MINNESOTA STORMWATER MANUAL TO DETERMINE DESIGN INFILITRATION RATES, WHEN SOIL BORNINGS INDICATE TYPE SOILS, PERMITTEES SHOULD PERFORM FIELD MEASURED INFILITRATION RATES IS NOT ABOVE AS INCHES PER HOUR. THIS PERMIT PROHIBITS INFILITATION IN THE FIELD MEASURED INFILITRATION RATE IS ABOVE 8.3 INCHES PER HOUR, MINN. R. 7099)

18.12 PERMITTEES MUST EMPLOY APPROPRIATE ON-SITE TESTING ENSURE A MINIMUM OF THREE (3) FEET OF SEPARATION FROM THE SEASONALLY SATURATED SOILS (OR FROM BEDROCK) AND THE BOTTOM OF THE PROPOSED INFILTRATION SYSTEM, (MINN. R. 7080) 18:13 PERMITTEES MUST DESIGN A MAINTENANCE ACCESS, TYPICALLY EIGHT (8) FEET WIDE, FOR THE INFILTRATION SYSTEM. IMINN, R. 70901

[16.14 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS THAT RECEIVE RUNOFF FROM VEHICLE FUELING AND MAINTENANCE AREAS INCLUDING CONSTRUCTION OF INFILTRATION SYSTEMS NOT REQUIRED BY THIS PERMIT, IN

FERMIT, (MINN. R. 7090)

It is this permit prohibits permittees from constructing infiltration systems where infiltrating stormwater may mobilize high levels of contaminants in soil, or groundwater, permittees must either complete the may mobilize high levels of contamination special contamination special contaminations are suitability for infiltration, permittees must retain the checklist or assessment of sympp, for more infiltrations, permittees must retain the checklist or assessment with the sympp, for more information and once the machine infiltration in the machine infiltration in the machine infiltration in the machine infiltration in the machine in the machine infiltration in the machine infiltration in the machine infiltration in the machine infiltration in the machine in the machine infiltration in the machine
To 15 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS IN AREAS WHERE SOIL INFILTRATI RATES ARE HELD MEASURED AT MORE THAN 8.3 INCHES PER HOUR UNLESS THEY AMEND SOILS TO SLOW THE INFILTRATION RATE BELOW 8.3 INCHES PER HOUR, MINN. R. 709)

KALE BELOVY B.3 INCHES PER MOUR. (MINN. N. 1999)

IGNIT THIS PERMITTER SPEND COMMON CONSTRUCTING INFILTRATION SYSTEMS IN AREAS WITH LESS THAN THREE (3) FEBT OF SEPARATION DISTANCE FROM THE BOTTOM OF THE INFILTRATION SYSTEM TO THE ELEVATION OF THE SEASONALLY SATURATED SOLES OF THE TOP OF BEDROCK, MINN. R. 1999)

16.18 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS IN AREAS OF PREDOMINATELY HYDROLOGIC SOIL GROUP TYPE D SOILS (CLAY), [MINN, R, 7090] 16.19 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS WITHIN A DRINKING WATER SUPPLY MANAGEMENT AREA (DWSMA) AS DEFINED IN MINN. R. 4720.5100, SUBP. 13, IF THE SYSTEM WILL BE LOCATED;

A. IN AN EMERGENCY RESPONSE AREA (ERA) WITHIN A DWSMA CLASSIFIED AS HAVING HIGH OR VERY HIGH VULNERABILITY AS DEFINED BY THE MINNESOTA DEPARTMENT OF HEALTH; OR

AS DEFINED BY THE MINNESOTA DEPARTMENT OF HEALTH; OR

B, IN AN ERA WITHIN A DIWSMA CLASSIFIED AS MODERATE VILINERABILITY UNLESS A REGULATED MS4 PERMITTEE
PERFORMED OR APPROVED A HIGHER LEVEL OF ENGINEERING REVIEW SUFFICIENT TO PROVIDE A FUNCTIONING
TREATMENT SYSTEM AND TO PREVENT ADVERSE IMPACTS TO GROUNDWATER: OR

C. OUTSIDE OF AN ERA WITHIN A DWSMA CLASSIFIED AS HAVING HIGH OR VERY HIGH VULNERABILITY, UNLESS A REGULATED
MS4 PERMITTEE PERFORMED OR A PPROVED A HIGHER LEVEL OF TROINEERING RENEW SUFFICIENT TO PROVIDE A
FUNCTIONING TREATMENT SYSTEM AND TO PREVENT ADVERSE IMPACTS TO GROUNDWATER.

SEE "HIGHER LEVEL OF ENGINEERING REVIEW" IN THE MINNESOTA STORMWATER MANUAL FOR MORE INFORMATION. [MINN. R. 77991]

16,20 THIS PERMIT PROHIBITS PERMITTEES FROM CONSTRUCTING INFILTRATION SYSTEMS IN AREAS WITHIN 1,000 FEET UPGRADIENT OR 100 FEET DOWNGRADIENT OF ACTIVE KARST FEATURES, [MINN, R, 7090] 16.21 THIS PERMIT PROHIBITS PRAMITIES FROM CONSTRUCTION INFILITATION SYSTEMS IN AREAS THAT RECEIVE RUNOFF FROM THE FOLLOWING INDUSTRUL FACILITIES NOT AUTHORIZED TO INFILITATION SYSTEMS IN AREAS THAT RECEIVE RUNOFF FROM THE FOLLOWING INDUSTRUL ACCILITIES NOT AUTHORIZED TO INFILITATE STORMWATER UNDER THE MPOSES STORMWATER UNDER THE MPOSES STORMWATER CUNDEN THE MATERIAL PROMISES AUTHORIZED AND STORMWATER CONCILING AND WASTERCEYCLING ADD WASTERCEYCLING ADD WASTERCEYCLING CONDUCT DELOTING ACTIVITIES THAT CONDUCT DELOTING ACTIVITIES THAT CONDUCT DELOTING ACTIVITIES THAT CONDUCT DELOTING ACTIVITIES.

17.1 FILTRATION SYSTEMS. [MINN. R. 7090]

17. TILTUSTICOLO TO TELLOS. (INTERNATION OPTIONS INCLUDE, BUT ARE NOT LIMITED TO; SAND FILTERS WITH UNDERDRAINS, BIOFILTRATION AREAS, SWALES USING UNDERDRAINS WITH IMPERMEABLE CHECK DAMS AND UNDERGROUND SAND FILTERS. IF PERMITTEES UTILIZE A FILTRATION SYSTEM TO MEET THE PERMANENT STORMWATER TREATMENT REQUIREMENTS OF THIS PERMIT, THEY MUST COMPLY WITH ITEMS 17.3 THROUGH 17.11. [MINN. R. 7080]

17.3 PERMITTEES MUST NOT INSTALL FILTER MEDIA UNTIL THEY CONSTRUCT AND FULLY STABILIZE THE CONTRIBUTING 17.4 PERMITTEES MUST DESIGN FILTRATION SYSTEMS TO REMOVE AT LEAST 80 PERCENT OF TSS. [MINN. R. 7090] TITS FERMITTEES MUST USE A PRETREATMENT DEVICE SUCH AS A VEGETATED FILTER STRIP, SMALL SEDIMENTATION BASIN, WATER CUALITY INLET, FOREBAY OR HYDRODYNAMIC SEPARATOR TO REMOVE SETTLEABLE SOLIOS, FLOATING MATERIALS, AND CIJS AND GREASE FROM THE RUNOFF, TO THE MAXIMUM EXTENT PRACTICABLE, BEFORE RUNOFF ENTERS THE FILTRATION SYSTEM, [MINN, R, 7030]

FILINATION STSTEM, (MINN, K. 1999)

17.6, PERMITTES MUST DESIGN FILINATION SYSTEMS TO TREAT A WATER QUALITY VOLUME (CALCULATED AS AN INSTANTANEOUS VOLUME) OF ONE (1) INCH OF RUNOFF, OR ONE (1) INCH MINUS THE VOLUME OF STORMWATER TREATED BY ANOTHER SYSTEM ON THE SITE, FROM THE MET INCREASE OF IMPERVIOUS SUFFACES CREATED BY THE FROJECT, MINN, R.

/USU)
1.7. PERMITTEES MUST DESIGN THE FILTRATION SYSTEM TO DISCHARGE ALL STORMWATER (INCLUDING STORMWATER IN EXCESS OF THE WATER QUALITY VOLUME) ROUTED TO THE SYSTEM THROUGH THE UPPERMOST SOIL SURFACE OR ENGINEERED MEDIA SURFACE WITH AS HOURS, ADDITIONAL FLOWS THAT THE SYSTEM CANNOT FILTER WITHIN 48 HOURS MUST BYPASS THE SYSTEM OR DISCHARGE THROUGH AN EMERGENCY OVERFLOW, IMINN. R. 7090]

17.8 PERMITTEES MUST DESIGN THE FILTRATION SYSTEM TO PROVIDE A MEANS TO VISUALLY VERIFY THE SYSTEM IS DISCHARGING THROUGH THE SOIL SURFACE OR FILTER MEDIA WITHIN 48 HOURS, MINN, R. 70901 17.9 PERMITTEES MUST EMPLOY APPROPRIATE ON-SITE TESTING TO ENSURE A MINIMUM OF THREE (3) FEET OF SEPARATION BETWEEN THE SEASONALLY SATURATED SOILS (OR FROM BEDROCK) AND THE BOTTOM OF THE PROPOSED FILTRATION SYSTEM, IMINN, R. 70901

17.10 PERMITTEES MUST ENSURE THAT FILTRATION SYSTEMS WITH LESS THAN THREE (3) FEET OF SEPARATION BETWEEN SEASONALLY SATURATED SOILS OR FROM BEDROCK ARE CONSTRUCTED WITH AN IMPERMEABLE LINER. [MINN. R. 7030] 17.11 THE PERMITTEES MUST DESIGN A MAINTENANCE ACCESS, TYPICALLY EIGHT (8) FEET WIDE, FOR THE FILTRATION SYSTEM, IMINN, R. 70901

STORM WATER POLLUTION PREVENTION PLAN BUNKER LAKE BLVD NE & RADISSON ROAD NE

M.Q.A. C.W.P. HCKD BY: PROJ. NO. M.Q.A. 21-1956 IGINAL DATE JANUARY 28, 2021



GROWING G K

PREPARED FOR: CLASSIC CONSTRUCTION



ENGINEERING, INC 6776 LAKE DRIVE SUITE 110 LINO LAKES, MN 55014

PHONE: (651) 361-8210 FAX: (651) 361-8701

18.2 PERMITTEES USING A WET SEDIMENTATION BASIN TO MEET THE PERMANENT STORMWATER TREATMENT REQUIREMENTS OF THIS PERMIT MUST INCORPORATE THE DESIGN PARAMETERS IN ITEM 18.3 THROUGH 18.10. [MINN. R. 7090]

18.3 PERMITTEES MUST DESIGN THE BASIN TO HAVE A PERMANENT VOLLING OF 1,800 CUSIG FEET OF STORAGE BELOW THE OUTLET PIPE FOR EACH ACRE THAT DRAINS TO THE BASIN. THE BASIN'S PERMANENT VOLLING FEET OF STORAGE BELOW THE OF AT LEAST THREE (3) FEET AND MUST HAVE NO DEPTH GREATER THAN 10 FEET, PERMITTEES MUST CONFIGURE THE BASIN TO MINIMIZE SCOUR OR RESUSPENSION OF SOLIDS, (MINN. R. 7080)

18.4 PERMITTEES MUST DESIGN THE BASIN TO PROVIDE LIVE STORAGE FOR A WATER QUALITY VOLUME (CALCULATED AS AN INSTRATANEOUS VOLUME) OF DIVE (1) INCH OF RUNDEF, OR ONE (1) INCH MINUS THE VOLUME OF STORMWATER TREATED BY ANOTHER SYSTEM ON THE SITE, FROM THE NET INCREASE IN IMPERVIOUS SURFACES CREATED BY THE PROJECT, (MINN. R. 7989)

18.5 PERMITTEES MUST DESIGN BASIN OUTLETS SO THE WATER QUALITY VOLUME DISCHARGES AT NO MORE THAN 5.66 CUBIC FEET PER SECOND (CFS) PER ACRE OF SURFACE AREA OF THE BASIN, [MINN, R. 7090]

16.6 PERMITTEES MUST DESIGN BASIN OUTLETS TO PREVENT SHORT-CIRCUITING AND THE DISCHARGE OF FLOATING DEBRIS. BASIN OUTLETS MUST HAVE ENERGY DISSIPATION, [MINN, R, 7090]

18.7 PERMITTEES MUST DESIGN THE BASIN TO INCLUDE A STABILIZED EMERGENCY OVERFLOW TO ACCOMMODATE STORM EVENTS IN EXCESS OF THE BASIN'S HYDRAULIC DESIGN. IMINN. R. 7090]

18.8 PERMITTEES MUST DESIGN A MAINTENANCE ACCESS, TYPICALLY EIGHT (8) FEET WIDE, FOR THE BASIN. (MINN. R. 7090] 18.9 PERMITTEES MUST LOCATE BASINS OUTSIDE OF SURFACE WATERS AND ANY BUFFER ZONE REQUIRED IN ITEM 23.11. PERMITTEES MUST DESIGN BASINS TO AVOID DRAINING WATER FROM WETLANDS UNLESS THE IMPACT TO THE WETLAND COMPLIES WITH THE REQUIREMENTS OF SECTION 22, JAINN. R. 7001]

18,10 PERMITTEES MUST DESIGN BASINS USING AN IMPERMEABLE LINER IF LOCATED WITHIN ACTIVE KARST TERRAIN, [MINN, R. 7000]

19.1 REGIONAL WET SEDIMENTATION BASINS, [MINN, R, 7090]

19.1 THE STORME. THE TIGHT WITH THAT THE PROPERTY OF BE RETAINED ONSITE, PERMITTEES CAN USE OR CREATE REGIONAL WET SEDIMENTATION BASINS PROVIDED THEY ARE CONSTRUCTED BASINS, NOT A ARTURAL. WETLAND OR WATER BODY. WETLANDS USED AS REGIONAL BASINS WITH BE MIGHTED FOR, SEE SECTION 22, THE OWNER MUST ENSURE THE REGIONAL BASIN CONFORMS TO ALL REQUIREMENTS FOR A WET SEDIMENTATION BASIN AS DESCRIBED IN TEMS 18.3 THROUGH THE REGIONAL BASIN CONFORMS TO THE REGIONAL BASIN CONFORMS TO THE REGIONAL BASIN WITH THE THAT THE REGIONAL BASIN WILL DISCHARGE AT NOT THE AREA THAT DO PAINS TO THE REGIONAL BASIN PRIMITIES MUST WANTED THAT THE REGIONAL BASIN TO THE REGIONAL BASIN TO THE REGIONAL BASIN TO THE REGIONAL BASIN WILL DISCHARGE AT NOT THE SELECTION OF THE REGIONAL BASIN WILL DISCHARGE AT NOT THE REGIONAL BASIN TO THE REGIONAL BASIN WILL DISCHARGE AT NOT THE REGIONAL BASIN TO THE REGIONAL BASIN TO THE BASIN. THE OWNER MUST OBTAIN WRITTEN AUTHORIZATION FROM THE APPLICABLE LGU OR PRIVATE ENTITY THAT CHARGE THE REGIONAL BASIN. THE OWNER MUST OBTAIN WRITTEN AUTHORIZATION FROM THE APPLICABLE LGU OR PRIVATE ENTITY THAT OWNS AND MAINTAINS THE

20,1 SWPPP AVAILABILITY, [MINN. R. 7090]

20.2 PERMITTEES MUST KEEP THE SWPPP, INCLUDING ALL CHANGES TO IT, AND INSPECTIONS AND MAINTENANCE RECORDS
THE SITE DURING NORMAL WORKING HOURS BY PERMITTEES WHO HAVE OPERATIONAL CONTROL OF THAT PORTION OF THE
SITE, [MINN, R, 7090]

21.1 TRAINING REQUIREMENTS, [MINN. R. 7090]

21.2 PERMITTEES MUST ENSURE ALL OF THE FOLLOWING INDIVIDUALS 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 THIS PERMIT:

A. INDIVIDUALS PREPARING THE SWPPP FOR THE PROJECT.

B. INDIVIDUALS OVERSEEING IMPLEMENTATION OF, REVISING AND/OR AMENDING THE SWPPP AND INDIVIDUALS PERFORMININSPECTIONS FOR THE PROJECT, ONE OF THESE INDIVIDUALS MUST BE AVAILABLE FOR AN ONSITE INSPECTION WITHIN 72 HOURS UPON REQUEST BY THE MPCA.

C, INDIVIDUALS PERFORMING OR SUPERVISING THE INSTALLATION, MAINTENANCE AND REPAIR OF BMPS. [MINN. R. 7090] 21.3 PERMITTEES MUST ENSURE INDIVIDUALS (DENTIFIED IN SECTION 21 RECEIVE TRAINING FROM LOCAL, STATE, FEDERAL AGENCIES, PROFESSIONAL ORGANIZATIONS, OR OTHER ENTITIES WITH EXPERTISE IN EROSION PREVENTION, SEDIMENT CONTROL, PERMANENT STORMWATER TREATMENT AND THE MINNESOTA NPDESSOS CONSTRUCTION STORMWATER PREMIT, PERMITTEES MUST ENSURE THESE INDIVIDUALS ATTEND A REPRESHER-TRAINING COURSE EVERY THREE (3) YEARS, MINN, R.

23.1 ADDITIONAL REQUIREMENTS FOR DISCHARGES TO SPECIAL (PROHIBITED, RESTRICTED, OTHER) AND IMPARIED WATERS. [MINN. R. 7090]

23.5 DISCHARGES TO THE TROUT STREAMS (OTHER SPECIAL WATER) LISTED IN MINN. R. 6264.0050, SUBP. 4 MUST INCORPORATI THE BMPS OUTLINED IN ITEMS 23.9, 23.10, 23.11, AND 23.12. [MINN.R. 6264.0050, SUBP. 4]

23.9 PERMITTEES MUST IMMEDIATELY INITIATE STABILIZATION OF EXPOSED SOIL AREAS, AS DESCRIBED IN ITEM 8.4 AND COMPLETE STABILIZATION WITHIN SEVEN (7) CALENDAR DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE ST

23.10 PERMITTEES MUST PROVIDE A TEMPORARY SEDIMENT BASIN AS DESCRIBED IN SECTION 14 FOR COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH FIVE (5) OR MORE ACRES DISTURBED AT ONE TIME, [MINN.R. 7090]

LOCATIONS THAT SERVE AN AREA WITH FIVE (5) OR MORE ACRES DISTURBED AT ONE TIME (MININ, 2008)

23.11 PERMITTEES MUST INCLUDE AN UNDISTURBED BUFFER ZONE OF NOT LESS THAN 100 LINEAR FEET FROM A SPECIAL
WATER (NOT INCLUDING TRIBUTARIES) AND MUST MAINTAIN THIS BUFFER ZONE AT ALL TIMES, BOTH DUTKING CONSTRUCTION
AND AS A PERMANENT FEATURE POST CONSTRUCTION, EXCEPT WHERE A WATER (ROS) MINING SONE HOLDON
AND AS A PERMANENT FEATURE POST CONSTRUCTION, EXCEPT WHERE A WATER CROSSING OR OTHER ENCROACHMENT IS
NECESSARY TO COMPLETE THE PROJECT, PERMITTEES MUST FULLY DOLOMENT THE CIRCUMSTANCE AND REASONS THE
BUFFER ENCROACHMENT IS NECESSARY IN THE SYMPP AND INCLUDE RESTORATION ACTIVITIES, THIS PERMIT LALLOWS
REPLACEMENT OF EXISTING IMPERVIOUS SURFACE WITHIN THE BUFFER PERMITTEES MUST MININIZE ALL POTENTIAL. WATER
CIUALITY, SCENIC AND OTHER ENVIRONMENTAL IMPACTS OF THESE EXCEPTIONS BY THE USE OF ADDITIONAL OR REDUMBANT
(COUBLE) BIMPS AND MUST DOCUMENT THIS IN THE SWPPP FOR THE PROJECT, IMINIA. TO TION 100 IN THE TEMPERATURE OF TROUT STREAMS RESULTING FROM THE ONE (1) AND THE PERMANENT STORMWATER TREATMENT SYSTEMS OF THE ONE OF THE POLYCE AND THE DISCHARGE FROM THE PROJEC
MINIMIZES ANY INCREASE IN THE TEMPERATURE OF TROUT STREAMS RESULTING FROM THE ONE (1) AND TWO (2) YEAR Z4-HOU PRECIPITATION EVENTS, THIS INCLUDES ALL TRIBUTARIES OF DESIGNATED TROUT STREAMS EXCALTED WITHIN THE SAME PUBLI
LAND SURVEY SYSTEM (INSS) SECTION. PERMITTEES MUST INCORPORATE ONE OR ORROO THE FOLLOWING MEASURES, IN
ORDER OF PREFERENCE:

9. PROVIDE STORMWATER INFILTRATION OR OTHER VOLUME EDUCATION OF THE PROJECT O

A. PROVIDE STORMWATER INFILTRATION OR OTHER VOLUME REDUCTION PRACTICES AS DESCRIBED IN 1TEM 15.4 AND 15.5, TO REDUCE RUNOFF, INFILTRATION SYSTEMS MUST DISCHARGE ALL STORMWATER ROUTED TO THE SYSTEM WITHIN 24 HOURS.

b, PROVIDE STORMWATER FILTRATION AS DESCRIBED IN SECTION 17. FILTRATION SYSTEMS MUST DISCHARGE ALL STORMWATER ROUTED TO THE SYSTEM WITHIN 24 HOURS,

c. MINIMIZE THE DISCHARGE FROM CONNECTED IMPERVIOUS SURFACED BY DISCHARGING TO VEGETATED AREAS, OR GRASS SWALES, AND THROUGH THE USE OF NON-STRUCTURAL CONTROLS.

d. IF PONDING IS USED. THE DESIGN MUST INCLUDE AN APPROPRIATE COMBINATION OF MEASURES SUCH AS SHADING, VEGETATED SYMALE DISCHARGES OR CONSTRUCTED WEILAND TREATED SYMALE DISCHARGES OR CONSTRUCTED WEILAND TREATMENT CELLS THAT LIMIT TEMPERATURE INCREASES. THE POND MUST BE DESIGNED AS A DRY POND A DISCHOLD FOR MEASURE OF THE POND MUST BE DESIGNED AS A DRY POND AND SHOULD FRAME TO THE POND MEASURE OF THE MEASURE OF THE POND MEASURE OF THE MEASURE OF THE POND MEASURE OF THE MEASURE OF THE POND MEASURE OF THE POND MEASURE OF THE MEASURE OF THE POND MEASURE OF THE PON

6, OTHER METHODS THAT MINIMIZE ANY INCREASE IN THE TEMPERATURE OF THE TROUT STREAM. [MINN. R. 7090] 24.1 GENERAL PROVISIONS, [MINN, R. 7090]

24.2 F THE MPCA DETERMINES THAT AN INDIVIDUAL PERMIT WOULD MORE APPROPRIATELY REGULATE THE CONSTRUCTION ACTUITY, THE MPCA MAY REQUIRES THAT AN INDIVIDUAL PERMIT TO CONTRUCT THE CONSTRUCTION ACTUITY. COVERAGE LUNGER THIS GENERAL PERMIT WILL REMMAIN HEFECT UNTIL. THE MPCA ISSUES AN INDIVIDUAL PERMIT, LININ, R. 10216, USUPS, 19.

24.3 IF THE PERMITTEE CANNOT MEET THE TERMS AND CONDITIONS OF THIS GENERAL PERMIT, AN OWNER MAY REQUEST AN INDIVIDUAL PERMIT, IN ACCORDANCE WITH MINN. R. 7001.0216 SUPP. 6. (MINN. R. 7001.0216, SUPP. 6)

24.4 ANY INTERESTED PERSON MAY PERTITION THE MPCA TO REQUIRE AN INDIVIDUAL PERMIT IN ACCORDANCE WITH 40 CPR 122.28(19).5)

42.5 PERMITTEES MUST MAKE THE SWIPPE, INCLUDING ALL INSPECTION REPORTS. MAINTELANCE SECONDAY.

24.5 PERMITTEES MUST MAKE THE SWPPP, INCLUDING ALL INSPECTION REPORTS, MAINTENANCE RECORDS, TRAINING RECORDS AND OTHER INFORMATION REQUIRED BY THIS PERMIT, AVAILABLE TO FEDERAL, STATE, AND LOCAL OFFICIALS WITHIN THREE (3) DAYS UPON REQUIRED FOR THE DURATION OF THE PERMIT AND FOR THREE (3) YEARS FOLLOWING THE NOT, MINIST, A 1798).

24.6 PERMITTEES MAY NOT ASSIGN OR TRANSFER THIS PERMIT EXCEPT WHEN THE TRANSFER OCCURS IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF ITEM 3.7 AND 3.8. [MINN. R. 7090]

THE APPLICABLE REQUIREMENTS OF ITEM 37 AND 3.8, [MINN. R. 7090]

2.4 NOTHING IN THIS PERMIT MUST BE CONSTRUED TO RELIEVE THE PERMITTEES FROM CIVIL OR CRIMINAL PENALTIES FOR NORCOMPLANCE WITH THE TERMS AND CONDITIONS PROVIDED HEREIN. NOTHING IN THIS PERMIT MUST BE CONSTRUED PRECLUDE THE INTITATION OF ANY LECAL ACTION OR RELIEVE THE PERMITTEES FROM ANY RESPONSIBILITIES, USBILITIES, OR PENALTIES TO WHICH THE PERMITTEES ISSARE OR MAY BE SUBJECT TO UNDER SECTION 311 OF THE CLEAN WATER ACT AND MINN. STATS, SECT. 115 AND 116, AS AMENDED. PERMITTEES ARE NOT LIABLE FOR PERMIT REQUIREMENTS FOR AUTHORS COCURRING ON THOSE PORTIONS OF A SITE WHERE THE PERMIT HAS BEEN TRANSFERRED TO ANOTHER PARTY AS REQUIRED IN ITEM 3.7 OR THE PERMITTEES HAVE SUBMITTED THE NOT AS REQUIRED IN SECTION 4, [MINN. R. 7090]
24.4 THE PROVISIONS OF THIS PERMIT ARE SEVERABLE. IF ANY PROVISION OF THIS PERMIT OANY CIRCUMSTANCES IN HELD INVALID, THE APPLICATION OF SUCH PROVISIONS OF THIS PERMIT ARE SEVERABLE. IF ANY PROVISION OF THIS PERMIT OANY CIRCUMSTANCES IN HELD INVALID, THE APPLICATION OF SUCH PROVISIONS ON SUCH PROVISIONS OF THIS PERMIT AND SCHOOL INVALID, THE APPLICATION OF SUCH PROVISIONS OF THIS PERMIT AND SCHOOL INVALID. THE APPLICATION OF SUCH PROVISIONS OF THIS PERMIT OANY CIRCUMSTANCES IN HELD INVALID. THE APPLICATION OF SUCH PROVISION OF OTHER CIRCUMSTANCES, AND THE REMAINDER OF THIS PERMIT MUST NOT BE AFFECTED THEREBY, [MINN. R. 7090]

1(g), 1(g),

24.11 FOR THE PURPOSES OF MINN. R. 7050 AND OTHER DOCUMENTS THAT REFERENCE SPECIFIC SECTIONS OF THIS PERMIT. "STORMWATER DISCHARGE DESIGN REQUIREMENTS" CORRESPONDS TO SECTIONS S, 6 AND 14 THROUGH 21; "CONSTRUCTION ACTIVITY REQUIREMENTS" CORRESPONDS TO SECTIONS 27 THROUGH 13; AND "APPENDIA A" CORRESPONDS TO SECTIONS 22

DOCUMENTATION OF TRAINED INDIVIDUALS

INDIVIDUAL WHO PREPARED THE SWPPP: NDIVIDUAL WHO PREPARED II
ADAM GINKEL
PLOWE ENGINEERING, INC.
6776 LAKE DRIVE
LINO LAKES MN 55014
(651) 361-8234
ADAM@plowe.com

University of Minnesota Adam Ginkel

Design of Construction SWPPP (May 31 2023)



Erosion and Stormwater

PROJECT NAME

PROJECT LOCATION

PID: 33-32-23-31-006

18542 ULYSSES ST. NE EAST BETHEL, MN 55011

SITE IMPERVIOUS AREAS

TOTAL DISTURBED AREA

COON CREEK

TOTAL ESTIMATED PERVIOUS

RECEIVING WATERS WITHIN ONE MILE

ON-SITE INFILTRATION BASIN

BUFFER TO SURFACE WATER

TEMPORARY SEDIMENTATION BASINS

INFILTRATION FEASIBILITY

RATIONS DAYCARE

CONTACT NAME: KYLE STRANDLUND
CONTACT PHONE: 763-434-6870
CONTACT E-MAIL: KYLE@CLASSICCONSTRUCTIONINC.COM

NARRATIVE - PERMANENT STORMWATER TREATMENT SYSTEMS
THE PROJECT CONSISTS OF THE CONSTRUCTION OF A COMMERCIAL BUILDING (DAYCARE FACILITY) AND A INFILTRATION BASIN FOR STORMWATER TREATMENT.

PERMANENT STORMWATER MANAGEMENT TREATMENT SYSTEMS PER MPCA RULES, CITY OF HAM LAKE, AND COON CREEK WATERSHED DISTRICT ARE REQUIRED FOR THIS PROJECT.

L STIE AREA 3.07 ACRES
L ESTIMATED IMPERVIOUS 0.00 ACRES 0.97 ACRES
L ESTIMATED PERVIOUS 3.07 ACRES 2.10 ACRES

APPROX. 0.97 ACRE INCREASE IN IMPERVIOU

SITE MAP W/ EXISTING AND FINAL GRADES AND DESIGN CALCULATIONS

SEE "STORMWATER DRAINAGE REPORT" FOR EXISTING AND PROPOSED AREA MAPS, DENOTING DRAINAGE AREA BOUNDARIES, DIRECTIONS OF FLOW, AND DISCHARGE POINTS WHERE STORMWATER LEAVES THE SITE.

FIT IF THE SITE DRAINS TO A SURFACE WATER, IS A 50-FT NATURAL BUFFER ADJACENT TO YES NO N/A THE SURFACE WATER PRESERVED?

UF FIVE (5) OR MORE ACRES OF DISTURBED SOIL DRAIN TO A COMMON LOCATION, IS A TEMPORARY SEDMENT BASIN PROVIDED FOR TREATMENT OF THE RUNDET SEFORE IT LEAVES THE CONSTRUCTION SITE OR ENTERS SURFACE WATERS?

ARE THERE ANY INFILTRATION RESTRICTIONS FOR THE SITE (SEE 16.14 YES NO N/A THROUGH 16.21?

ARE THERE ANY STORMWATER MITIGATION MEASURES PER:
YES NO . ENVIRONMENTAL DEVICEM POPULIFIED A

IF YES TO ANY OF THE ABOVE, DESCRIBE THE MITIGATION MEASURES, FOR PURPOSES OF THIS PERMIT, MITIGATION MEASURES MEANS ACTIONS NECESSARY TO AVOID, MINIMIZE, OR MITIGATE FOR IMPACTS RELATED TO EROSION PREVENTION, SEDIMENT CONTROL, THE PERMANENT STORMMATE

EROSION PREVENTION, SEDIMENT CONTROL, THE PERMANENT STORMANTER
TREATMENT SYSTEM, POLLUTION PREVENTION MANAGEMENT MEASURES AND
DISCHARGES ASSOCIATED WITH THE PROJECT'S CONSTRUCTION ACTIVITY.
[MINN. R, 7090]

ONG TERM OPERATION AND MAINTENANCE OF PERMANENT STORMWATER FACILITIES THE PERMANENT STORMWATER MANAGEMENT FACILITIES ARE PRIVATELY OWNED AND THE LONG-TERM OPERATIONS AND MAINTENANCE WILL BE PROVIDED BY THE OWNER. THE CITY OF HAM LAKE SHALL NOT BE RESPONSIBLE FOR LONG-TERM OPERATIONS AND MAINTENANCE OF THE STORMWATER MANAGEMENT FACILITIES.

 ENVIRONMENTAL REVIEW DOCUMENT? ENDANGERED SPECIES REVIEW? ARCHAEOLOGICAL REVIEW? OTHER LOCAL, STATE OR FEDERAL REVIEW?

ADDITIONAL STORMWATER MITIGATION MEASURES

NOTE: NATURAL BUFFERS ARE NOT REQUIRED ADJACENT TO ROAD DITCHES, JUDICIAL DITCHES, COUNTY DITCHES, STORMWATER CONVEYANCE CHANNELS, STORM DRAIN INLETS, AND SEDIMENT BASINS.

BEFORE AFTER CONSTRUCTION

TYPE OF SPECIAL IMPAIRED WATER WATER

BASIN NO NO

CREEK NO YES

B. INDIVIDUAL(S) OVERSEEING IMPLEMENTATION OF, REVISING AND/OR AMENDING THE SWIPP AND INDIVIDUALS PERFORMING INSPECTIONS FOR THE PROJECT, ONE OF THESE INDIVIDUALS MUST BE AVAILABLE FOR AN ONSITE INSPECTION WITHIN 72 HOURS UPON REQUEST BY THE MPCA. [MINN, R. 7090]

MPANY	
DRESS 1	
DRESS 2	
ONE	
AIL	

NAME	
COMPANY	
ADDRESS 1	
ADDRESS 2	
PHONE	
EMAIL	

REVEGETATION SPECIFICATIONS

ITEM		MNDOT SPECIFICATION/NOTES
SOD		3878
SEED **	3878	
-	ABLISHMENT OMMERCIAL TURF ESIDENTIAL TURF	MNDOT MIX 25-131 (220 LBS/ACRE) MNDOT MIX 25-131 (120 LBS/ACRE)
SOIL-	FALL COVER SPRING/SUMMER BUILDING COVER -2 YEARS COVER -5 YEARS COVER	MNDOT MIX 21-112 (100 LBS/ACRE) MNDOT MIX 21-111 (100 LBS/ACRE) MNDOT MIX 21-113 (110 LBS/ACRE) MNDOT MIX 22-111 (30.5 LBS/ACRE) MNDOT MIX 22-112 (40 LBS/ACRE)
MULCH		3882 (TYPE 1 - DISC ANCHORED)
FERTILIZER		3881
WOOD FIBER BLAI	KET	3885 (CATEGORY 0)

** SEEDED AREAS SHALL BE EITHER MULCHED OR COVERED BY FIBROUS BLANKETS TO PROTECT SEEDS AND LIMIT EROSION.

QUANTITIES - ESTIMATED QUANTITIES FOR EROSION AND SEDIMENT CONTROL MEASURES

TYPE	QTY	UNIT
SILT FENCE	1600	LINEAR FEET
RIP-RAP W. GEO-FABRIC	+	CUBIC YARDS
TURF REINFORGEMENT MAT (ENKAMAT)	-	SQUARE YARDS
SEED & MULCH (GENERAL)		ACRE
ROCK CONSTRUCTION ENTRANCE .	1	EACH
SOD		SQUARE YARDS
EROSION CONTROL BLANKET	-	SQUARE YARDS
INLET PROTECTION		EACH

NARRATIVE - TIMING FOR INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES

FAILING

10. CONTRACTOR TO STABILIZE SOIL STOCKPILES; STABILIZATION SHALL BE INITIATED

AREAS.

12. CONTRACTOR SHALL BE RESPONSIBLE TO SWEEP/SCRAPE ADJACENT STREETS WHEN MATERIALS OR DEBRIS HAVE WASHED/FLOWED ONTO ADJACENT STREETS OR AS

THIS CREEK HAS AN EPA-APPROVED IMPAIRMENT FOR BENTHIC MACROINVERTEBRATE BIOASSESSMENTS AND ESCHERICHIA COLI, THESE IMPAIRMENTS ARE CONSIDERED TO BE CONSTRUCTION RELATED PARAMETERS AND REQUIRE THE ADDITIONAL BEST MANAGEMENT PRACTICES FOLING IN TIFE 29 a. 8, 2 %.

TTPE	GH	MINIT
SILT FENCE	1600	LINEAR FEET
RIP-RAP W. GEO-FABRIC	+	CUBIC YARDS
TURF REINFORGEMENT MAT (ENKAMAT)	-	SQUARE YARDS
SEED & MULCH (GENERAL)	-	ACRE
ROCK CONSTRUCTION ENTRANCE .	1	EACH
SOD		SQUARE YARDS
EROSION CONTROL BLANKET	-	SQUARE YARDS
INLET PROTECTION		EACH

NARRATIVE - TIMING FOR INSTALLATION OF EROSION AND SEDIMENT CONTR

1. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND SWPPP
MUST BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES.

2. CONTRACTOR SHALL INSTALL SLIT FERDE AS SHOWN ON PLAN.

2.1. ADDITIONAL SLIT FENCE MAY BE NECESSARY IF LOCAL CONDITIONS REQUIRE.

2.2. THE CONTRACTOR SHALL MAINTAIN SLIT FENCE, INCLUDING THE REMOVAL OF
ACCUMULATED SEDIMENT, THROUGH COMPLETION OF BUILDING CONSTRUCTION.

2.3. SLIT FENCE SHALL REMAIN IN-PLACE UNTIL SITE HAS BEEN STABILIZED.

3. CONTRACTOR SHALL PERMAIN IN-PLACE UNTIL SITE HAS BEEN STABILIZED.

4. CONTRACTOR TO INSTALL THEE PROTECTION FENCINGS AS APPLICABLE

5. CONTRACTOR SHALL PERFORM SITE GRADING ON AN AREA-BY-AREA BASIS TO MINIMIZE UNSTRABILIZED AREAS.

5. 1. CONTRACTOR SHALL PERFORM SITE GRADING ON AN AREA-BY-AREA BASIS TO MINIMIZE UNSTRABILIZED AREAS.

5. 1. CONTRACTOR SHALL PREPROM SITE GRADING ON AN AFFER THE CONSTRUCTION AREAS, AS DESCRIBED IN ITEM 84 OF THE PERMIT, AND COMPLETE THE STABILIZATION WITHIN SEVEN IT, CLAEIDADR ADVA SAFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE TEMPORABILY OF PERMARAENTLY CRASSES.

5. CONTRACTOR TO PROTECT PERMANENT STORMWATER MANAGEMENT FACILITIES FROM CONSTRUCTION RUM-OFF.

FROM CONSTRUCTION RUN-OPF.

5.1. INFILTRATION SYSTEMS MUST NOT BE EXCAVATED TO FINAL GRADE UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN CONSTRUCTED AND FULLY STABILIZED.

7. CONTRACTOR TO SHALL PAY SPECIAL ATTENTION TO ADJACENT PROPERTY LINES TO ENSURE THE EROSION CONTROL PRACTICES INPLACE IN THOSE AREAS PREVENT MIGRATION OF SEDIMENT ONTO ADJACENT PROPERTIES.

ALL EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS OR ALL EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS OR PROPERTIES.

PAGE AND THE PLANS OR THE PLANS O

CONTRACTOR TO PROVIDE ADDITIONAL SILT FENCE, BIOROLLS, EROSION CONTROL BLANKET, OR OTHER APPROVED EQUAL FOR ANY SLOPES THAT APPEAR TO BE

11. CONTRACTOR SHALL FINAL GRADE SWALE AREAS UPON STABILIZATION OF UPSTREAM

DIRECTED BY CITY

13. COORDINATE SMALL UTILITIES INSTALLATIONS (GAS, PHONE, ELECTRIC, GAS, ETC.)
AFTER CURB & GUTTER INSTALLATION.

LIST OF IMPAIRED WATERS:

"OPERATOR" MEANS THE PERSON (USUALLY THE GENERAL CONTRACTOR), FIRM, GOVERNMENTAL AGENCY, OR OTHER ENTITY DESIGNATED BY THE OWNER WHO HAS DAY TO DAY OPERATIONAL CONTROL ANDIOR THE ABILITY TO MODIFY PROJECT PLANS AND SPECIFICATIONS RELATED TO THE SWPPP, THE PERMIT APPLICATION MUST LIST THE OPERATOR AS PERMATTES, SUBCONTRACTORS HIRED BY AND UNDER SUPERVISION OF THE GENERAL CONTRACTOR ARE NOT OPERATORS, [MINN, R, 7990] TEANS OF ERUSIUM PREVENTION AND SEUMENT COURT INCL., AND THE IER CUPILLY TA ANAGEMENT PRACTICES THAT ARE THE MOST EFFECTIVE AND PRACTICABLE MEANS OF O CONTROL, PREVENT, AND MINIMIZE DEGRADATION OF SURFACE WATER, INCLUDING VOIDANCE OF IMPACTS, CONSTRUCTION-PHASING, MINIMIZING THE LENGTH OF TIME SOI REAS ARE EXPOSED, PROHIBITIONS, POLLUTION PREVENTION THROUGH GOOD

DESIGNATED AREA-WIDE PLANNING AGENCIES, [MINN, R, 7090]

ONSTRUCTION ACTIVITY" MEANS ACTIVITIES INCLUDING CLEARING, GRADING, AND CAVATING, THAT RESULT IN LAND DISTURBANCE OF EQUAL TO OR GREATER THAN ONE

EACHWAINING, THE INSURED HE MAD THE MEDICAL THE MEDICAL TO MEDICAL THE MEDICAL

SOIL COVER, BOTH YEGETATIVE AND NONVEGETATIVE, OR THE EXISTING SOIL TOPOGRAPHY THAT MAY RESULT IN ACCELERATE S STORMYATER RUNOFF THAT MAY ELED TO SOIL EROSION AND MOVEMENT OF SEDIMENT. CONSTRUCTION ACTIVITY DOES NOT INCLUDE A DISTURBANCE TO THE LAND OF LESS THAN THY ACRES FOR THE PURP OF ROUTINE MAINTENANCE PERFORMED TO MAINTAIN THE ORIGINAL LINE AND GRADE. HYDRALLIC APPACITY, AND GRISINAL PURPOSE OF THE FEAULTY, ROUTINE MAINTENAN DOES NOT INCLUDE ACTIVITIES SUCH AS REPAIRS, REPLACEMENT AND OTHER TYPES.

EWATERING" MEANS THE REMOVAL OF SURFACE OR GROUND WATER TO DRY ANDIOR DUDIEY A CONSTRUCTION SITE TO ENABLE CONSTRUCTION ACTIVITY, DEWATERING MA EQUIRE A MINNESOTA DEPARTMENT OF NATURAL RESOURCES WATER APPROPRIATION ERMIT AND, IF DEWATERING WATER IS CONTAMINATED, DISCHARGE OF SUCH WATER

EROSION PREVENTION" MEANS MEASURES ÉMPLOYED TO PREVENT EROSION SUCH AS SOIL STABILIZATION PRACTICES, PERMANENT COVER OR CONSTRUCTION PHASING, [MINN.

R. 7099] "GENERAL CONTRACTOR" MEANS THE PARTY WHO SIGNS THE CONSTRUCTION CONTRACT WITH THE OWNER TO CONSTRUCT THE ENTIRE PROPOSED THE SCRIBED IN THE FINAL PLANS AND SPECIFICATIONS, WHERE THE CONSTRUCTION PROCEST INVOLVES MORE THAN ONE CONTRACTOR. THE GENERAL CONTRACTOR IS THE PARTY RESPONSIBLE FOR MANAGING THE ENTIRE PROJECT ON BEINERAL CONTRACTOR. IN THE STRUCK CASES, THE OWNER IS THE GENERAL CONTRACTOR. IN THESE CASES, THE OWNER IS GONE AS THE OFFICE AS THE OWNER IS THE STRUCK OF THE S

"GROUNDWATER" MEANS THE WATER CONTAINED BELOW THE SURFACE OF THE EARTH IN THE SATURATED ZONE INCLUDING WITHOUT LIMITATION, ALL WATERS WHETHER UNDER CONFINED, INCOMPINED, OR PERCHED CONDITIONS, IN EARS SURFACE UNCONSOLIDATE

INITIATED IMMEDIATELY" MEANS TAKING AN ACTION TO COMMENCE SOIL STABILIZATION AS SOON AS PRACTICABLE, BUT NO LATER THAN THE END OF THE WORK DAY, FOLLOWING THE DAY WHEN THE LAND, DISTURBING ACTIVITIES TEMPORABILY OF REFRAN

SITE WILL BE TEMPORARILY CEASED FOR 14 OR MORE ADDITIONAL CALENDAR DAYS OR CALENDAR DAYS WHERE ITEM 23.9 APPLIES, PERMITTEES CAN INITIATE STABILIZATION BY

A PREPPING THE SOIL FOR VEGETATIVE OR NON-VEGETATIVE STABILIZATION; OR , APPLYING MULCH OR OTHER NON-VEGETATIVE PRODUCT TO THE EXPOSED SOIL AREA;

. STARTING ANY OF THE ACTIVITIES IN A - C ON A PORTION OF THE AREA TO BE TABILIZED, BUT NOT ON THE ENTIRE AREA; OR

E. FINALIZING ARRANGEMENTS TO HAVE STABILIZATION PRODUCT FULLY INSTALLED IN COMPLIANCE WITH THE APPLICABLE

TIMPERVIOUS SURFACE" MEANS A CONSTRUCTED HARD SURFACE THAT EITHER PREVENTS OR RETARDS THE ENTRY OF WATER INTO THE SOIL AND CAUSES WATER TO RUN OFF THE SURFACE MERGATER QUANTITIES AND AT AN INCREASED RATE OF FLOW THAN PRIDE TO

CONSIDERED INFERVIOUS SURFACES, WINNER, L'OBEN THE MEANS THE PROGRAM FOR ISSUING, MODIFYING, REVOKING, REISSUING, TERMINATING, MONITORING, AND EMPORCING PERMITS UNDER THE CLEAN WATER ACT, AS AMENDED (33 U.S., 125 LET SEC. SECTION 1342 AND 46 OFF PARTS 122, 123, 124 AND 45), MAINN, R. 7080]

"NATURAL BUFFER "MAINS AN AREA OF UNIDISTURBED COVER SURROUNDING SURFACE WATERS WITHIN WHICH CONSTRUCTION ACTIVITIES ARE RESTRICTED, NATURAL BUFFER INCLUDES THE VEGETATION, EXPOSED ROCK, OR BAYREN GROUND THAT EXISTS PRIOR TO COMMENCEMENT OF EARTH-OUSTURBING ACTIVITIES, AREA (1984).

TICE OF TERMINATION (NOT)" MEANS THE FORM (ELECTRONIC OR PAPER) REQUIRED TERMINATING COVERAGE UNDER THE CONSTRUCTION GENERAL PERMIT, [MINN, R,

C. SEEDING OR PLANTING THE EXPOSED AREA; OR

DEADLINE FOR COMPLETING STABILIZATION, IMINN, R. 7090)

"HOMEOWNER FACT SHEET" MEANS AN MPCA FACT SHEET AVAILABLE ON THE MPC. CONSTRUCTION STORMWATER WEBSITE FOR PERMITTERS TO GIVE TO HOMEOWNE THE TIME OF SALE, [MINN, R. 7090]

MAY REQUIRE AN INDIVIDUAL MPCA NPDES/SDS PERMIT, IMINN, R. 70901

THE GENERAL COUNTRY LIFE OF THE CONSTRUCTION ACTIVITY, MINN, R. 7090]

"OWNER" MEANS THE PERSON, FIRM, GOVERNMENTAL AGENCY, OR OTHER ENTITY
POSSESSING THE TITLE OF THE LAND ON WHICH THE CONSTRUCTION ACTIVITIES WILL
OCCUR OR, IF THE CONSTRUCTION ACTIVITY IS FOR A LEASE, EASEMENT, OR MINERAL
RIGHTS LICENSE HOLDER, THE PARTY OR INDIVIDUAL IDENTIFIED AS THE LEASE,
EASEMENT OR MINERAL RIGHTS LICENSE HOLDER, THE CONTRACTING OOVERNMENT
AGENCY RESPONSIBLE FOR THE CONSTRUCTION ACTIVITY, MINN, R. 7080]

AGENCY RESPONSIBLE FOR THE CONSTRUCTION ACTIVITY, (MINN, R. 7090)

"FERMANENT COVER" MEANS SUFFACE TYPES THAT WILL PREVENT SOIL FAILURE UNDER EROSIVE CONDITIONS. EXAMPLES INCLUDE: GRAVEL, CONCRETE, PERENNIAL COVER, OR OTHER LANDSCAPED MATERIAL THAT WILL PERMANENTLY ARREST SOIL EROSION. PERMITTES MUST ESTABLISH A UNIFORM PERENNIAL VEGETATIVE COVER (I.E., EVENLY DISTRIBUTED, WITHOUT LARGE BARE AREAS) WITH A DENSITY OF 70 PERCENT OF THE MATTLE BACKGROUND VEGETATIVE COVER ON ALL AREAS NOT COVERED BY PERMANENT STRUCTURES, OR EQUIVALENT PERMANENT STRULTATION MEASURES, PERMANENT COVER DOES NOT INCLUDE TEMPORARY BIMPS SUCH AS WOOD PIERS BLANKET, MULCH, AND ROLLED EROSION CONTROL PRODUCTS, (MINN, R, 7090)

"PERMITTESS MEANS THE PERSONS, FIRM, GOVERNMENTAL AGENCY, OR OTHER ENTITY DENTIFIED AS THE OWNER AND OPERATOR ON THE APPLICATION SUBMITTED TO THE MERCA AND ARE RESPONSHED. FOR COVER THE TERMS AND CONDITIONS OF

ONSIBLE FOR COMPLIANCE WITH THE TERMS AND CONDITIONS OF THIS PERMIT, [MINN, R. 7090]

"PROJECT(S)" MEANS ALL CONSTRUCTION ACTIVITY PLANNED AND/OR CONDUCTED UNDER A PARTICULAR PERMIT. THE PROJECT OCCURS ON THE SITE OR SITES DESCRIBED IN THE PERMIT APPLICATION, THE SWPPP AND IN THE ASSOCIATED PLANS, SPECIFICATIONS AND CONTRACT DOCUMENTS. [MINN, R. 7090]

"PUBLIC WATERS" MEANS ALL WATER BASINS AND WATERCOURSES DESCRIBED IN MINN. STAT, SECT. 103G.005 SUBP. 15. [MINN. R. 7090]

"SEDIMENT CONTROL" MEANS METHODS EMPLOYED TO PREVENT SUSPENDED SEDIMENT IN STORMWATER FROM LEAVING THE SITE (E.G. SILT FENCES, COMPOST LOGS AND STORM DRAIN INLET PROTECTION, MINN. R. 7000

DRAIN INLET PROTECTION), [MINN. R. 7080]

*TABILIZET, "STABILIZED," STABILIZATION MEANS THE EXPOSED GROUND SURFACE HAS
BEEN COVERED BY APPROPRIATE MATERIALS SUCH AS MULCH, STAKED SOD, RIPRAP,
EROSION CONTROL BLANKER, MATS OR OTHER MATERIAL THAT PREVENTS EROSION FORM
OCCURRING, GRASS SEEDING, AGRICULTURAL CROP SEEDING OR OTHER SEEDING ALONE
IS NOT STABLIZATION, MULCH MATERIALS MUSTA CHEVE APPROXIMATELY 80 PERCENT
GROUND COVERAGE (TYPICALLY 2 TOWACRE), [MINN. R. 7090]

"STORMWATER" MEANS PRECIPITATION RUNOFF, STORMWATER RUNOFF, SNOWMELT RUNOFF, AND ANY OTHER SURFACE RUNOFF AND DRAINAGE, [MINN. R. 7090] STEEP SLOPES* MEANS SLOPES THAT ARE 1:3 (V:H) (33.3 PERCENT) OR STEEPER IN SRADE, (MINN, R. 7090)

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)* MEANS A PLAN FOR STORMWATER DISCHARGE THAT INCLUDES ALL REQUIRED CONTENT UNDER IN SECTION 5 THAT DESCRIBES THE EROSION PREVENTION, SEDIMENT CONTROL AND WASTE CONTROL BMPS AND PERMANENT STORMWATER TREATMENT SYSTEMS, IMINN, R. 7080]

BIND'S ARU PERMANENT IS TURKINY-LIKE I ITEM INTERNI STS LEITE, INITIN'S, YOUNG
"ANCHORONCE WITH SECTION 22 AS SURPINCE INVIENCE, INMINE." AND SUBP. 22) MEANS ALL STREAMS, LAKES, PONDS, MARSHES, WATERCOURSES, WATERWAYS, WELLS, SPRINGS, RESERVOIRS, OQLIPERS, IRRIGATION SYSTEMS, DRAINAGE SYSTEMS AND ALL OTHER BODIES OR ACCUMULATIONS OF WATER, SURFACE OR UNDERGOUND, NATURAL OR ARTIFICIAL, PUBLIC OR PRIVATE, WHICH ARE CONTAINED WITH, FLOW THROUGH, OR BORDER UPON THE STATE OR ANY PORTION THEREOF, (MINN. STAT. 115.01, SUBP. 22) "WATER QUALITY YOLUME" MEANS ONE (1) INCH OF RUNOFF FROM THE NET INCREASE IN IMPERVIOUS SURFACES CREATED BY THE PROJECT (CALCULATED AS AN INSTANTANEOUS VOLUME), [MINN, R, 7090]

VOLUME, (MINN, N. 1999)

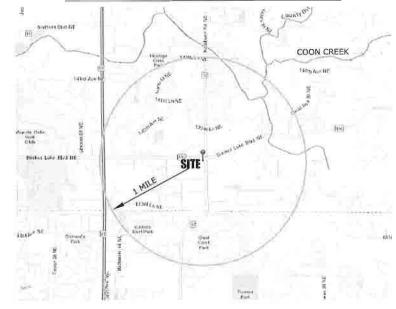
"WETLANDS ('AB DEFINED IN MINN, R. 7050,0188, SUBP, 1A.B.) MEANS THOSE AREAS THAT
ARE INUNDATED OR SATURATED BY SURFACE WATER OR GROUNDWATER AT A
FREQUENCY AND DUBATION SUFFICIENT TO SUPPORT, AND UNDER NORTHAL
CIRCUMSTANCES DO SUPPORT, A PREVALENCE OF VEGETATION TYPICALLY ADAPTED FOR
LIFE IN SATURATED SOIL CONDITIONS, WEITLANDS GENERALLY INCLUDE SWAMPS,
MASSHES, BOSG, AND SIMILAR AREAS. CONSTRUCTED WEITLANDS DESIGNED FOR WASTEWATER TREATMENT ARE NOT WATERS OF THE STATE. WETLANDS MUST HAVE THE FOLLOWING ATTRIBUTES:

1. A PREDOMINANCE OF HYDRIC SOILS; AND

2. INUNDATED OR SATURATED BY SURFACE WATER OR GROUNDWATER AT A FREQUENCY AND DURATION SUFFICIENT TO SUPPORT A PREVALENCE OF HYDROPHYTIC VEGETATION TYPICALLY ADAPTED FOR LIFE IN A SATURATED SOIL CONDITION; AND

UNDER NORMAL CIRCUMSTANCES SUPPORT A PREVALENCE OF SUCH VEGETATION. [MINN. R. 7050.0186, SUBP. 1A.B]

MAP OF SURFACE WATERS



STORM WATER POLLUTION PREVENTION PLAN BUNKER LAKE BLVD NE & RADISSON ROAD NE

C.W.P. M.Q.A. CHCKD BY: PROJ. NO. JANUARY 28 2021



GROWING GENERATIONS DAYCARE E E

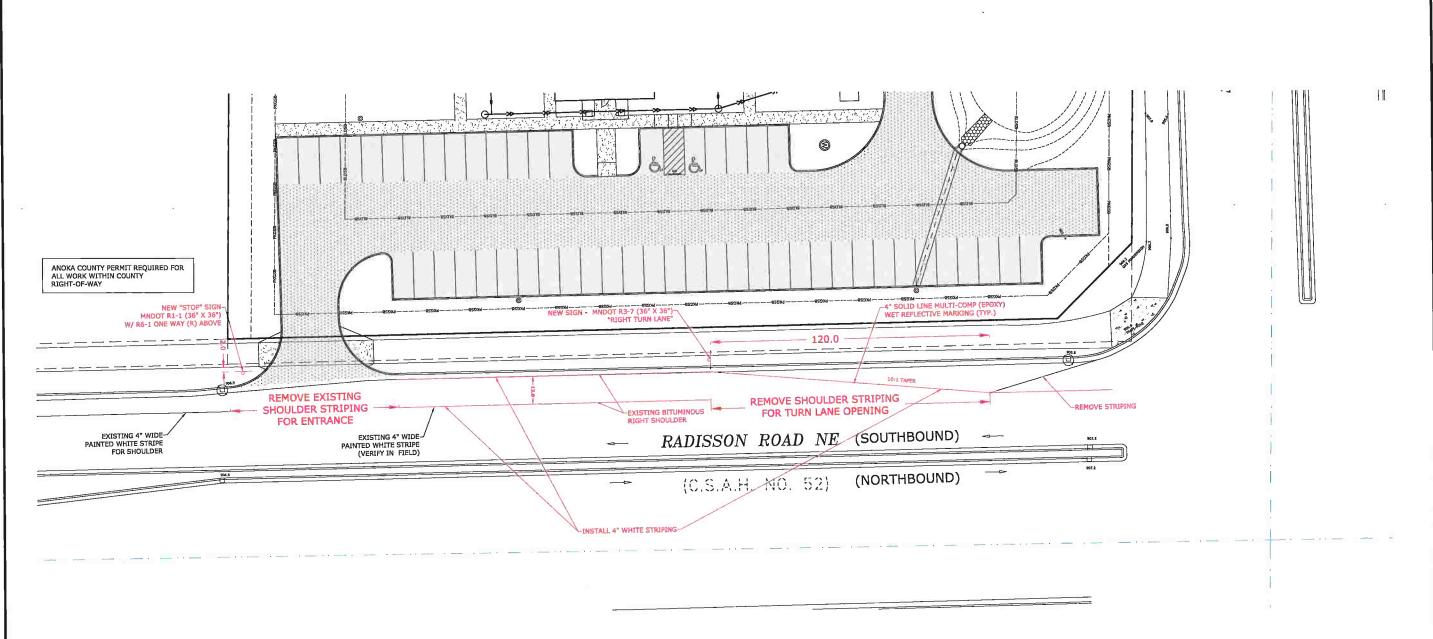
CLASSIC CONSTRUCTION

REPARED FOR:



PLOWE ENGINEERING, INC 6776 LAKE DRIVE SUITE 110 LINO LAKES, MN 55014

PHONE: (651) 361-8210 FAX: (651) 361-8701



NOTE:-STRIPING PAINT:

T THE TIME OF APPLYING THE MARKING MATERIAL, THE APPLICATION AREA SHALL BE FREE ONTAMINATION. THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE PRIOR TO THE LI PPLICATION IN A MANNER, AND TO THE EXTENT REQUIRED BY THE ENGINEER.

EXCEPT WHEN USED AS A TEMPORARY MARKING, PAVEMENT MARKINGS SHALL ONLY BE APPLIED IN SEASONABLE WEATHER WHEN AIR TEMPERATURE IS 50°F OR HIGHER AND SHALL NOT BE APPLIED WHEN THE WIND OR OTHER CONDITIONS CAUSE A FILM OF DUST TO BE DEPOSITED ON THE PAVEMENT SURFACE AFTER CLEANING AND BEFORE THE MARKING MATERIAL CAN BE APPLIED.

THE FILLING OF TANKS, POURING OF MATERIALS OR CLEANING OF EQUIPMENT SHALL NOT BE PERFORME ON UNPROTECTED PAVEMENT SURFACES UNLESS ADEQUATE PROVISIONS ARE MADE TO PREVENT SPILLA OF MATERIAL

NOTES:

1. ALL NEW LANE LINE MARKINGS SHALL BE MULTI-COMP EPOXY MATERIAL.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR INCURRING THE COST AND REPLACING AN EXISTING PAYMENT MARKINGS THAT HAVE BEEN DAMAGED FROM CONSTRUCTION ACTIVITIES AS DETERMINED BY THE PROJECT ENGINEER.

3. THE CONTRACTOR SHALL EXECUTE ANY PAVEMENT MARKING FIELD CHANGES THAT ARE DEEMED NECESSARY BY THE PROJECT ENGINEER.

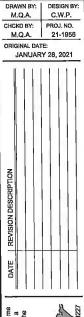
4. ALL SIGNING AND STRIPING SHALL MEET ANOKA COUNTY STANDARDS AND SPECIFICATIONS.

CONTRACTOR SHALL FOLLOW MNDOT'S "TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS FIELD MANUAL 2014" FOR TRAFFIC CONTROL

ALL WORK WITHIN ANOKA COUNTY RIGHT-OF-WAY SHALL CONFORM TO THE 2018 EDITION OF THE MNDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.



TURN LANE PLAN BUNKER LAKE BLVD NE & RADISSON ROAD NE





GROWING GENERATIONS DAYCARE HAM LAKE, MINHESOTA

PREPARED FOR: CLASSIC CONSTRUCTION



SITE PLANNING & ENGINEERING PLOWE ENGINEERING, INC

6776 LAKE DRIVE SUITE 110 LINO LAKES, MN 55014 PHONE: (651) 361-8210 FAX: (651) 361-8701

NORTH





QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZ	E/RDO	Ţ
TRI	EES					
7	ABM	Acer freemanii	Autumn Bloze Mople	2-	1/2"	8%8
12	PAE	Ulmus americana 'Princeton'	Princeton American Eim	2-	1/2"	B&E
3	PC	Malus 'Prairiefire'	Prairiefire Crobappie	1-	1/2"	B&E
9	BH	Picea glauca 'Densata'	Black Hills Spruce	61	B&B	
3	CS	Piceo pungens	Colorado Spruce	6'	8&8	
8	NS	Picea ables	Norway Spruce	6'	B&B	
TOT/	L 42					
SH	RUBS					
8	DN	Physocorpus opulifollus 'Monlo'	Dlabolo Ninebark	5	GAL	Pot
17	IHD	Cornus alba 'Ballhalo'	Ivory Halo Dogwood	5	GAL	Pot
5	LDN	Physocorpus opulifolius 'Donna May'	Little Devil Ninebork	5	GAL.	Pot
14	GM ∄	Buxus 'Green Mountain'	Green Mountain Boxwood	5	GAL.	Pot
7	EMH	Lonicera xylosteum 'Emerald Mound'	Emerald Mound Honeysuckie	2	GAL	Pot
TOTA	VL 51					
OR	NAME	NTAL GRASSES & PERENNIALS				
22	KFG	Calamagrostis acutifiora 'Karl Forester'	Karl Forester Feather Reed Grass		5 Gal	. P
12	AJS	Sedum spectablie 'Herbstfreuda'	Autumn Joy Sedum		1 Gal.	. Po
31	вин	Hosta 'Blueberry Muffin'	Blueberry Muffin Hosta		1 Gal.	P

PLANTING NOTES:

Use minimum 12" loam planting soil on trees and 6" on shrubs.

Contractor shall verify locations with all utilities prior to installation of plants.

Staking of trees optional; reposition if not plumb after one year.

Wrap all smooth-barked trees-fasten top and bottom. Remove by April 1.

Open top of burlap on BB materials; remove pot on potted plants; split and break apart peat pots.

Prune plants as necessary -- per standard nursery practice.

Owner shall be responsible for maintenance after acceptance of the work by the Owner.

Plants shall be immediately planted upon arrival at site. Properly heel-in materials if necessary All disturbed greas to be seeded unless otherwise noted.

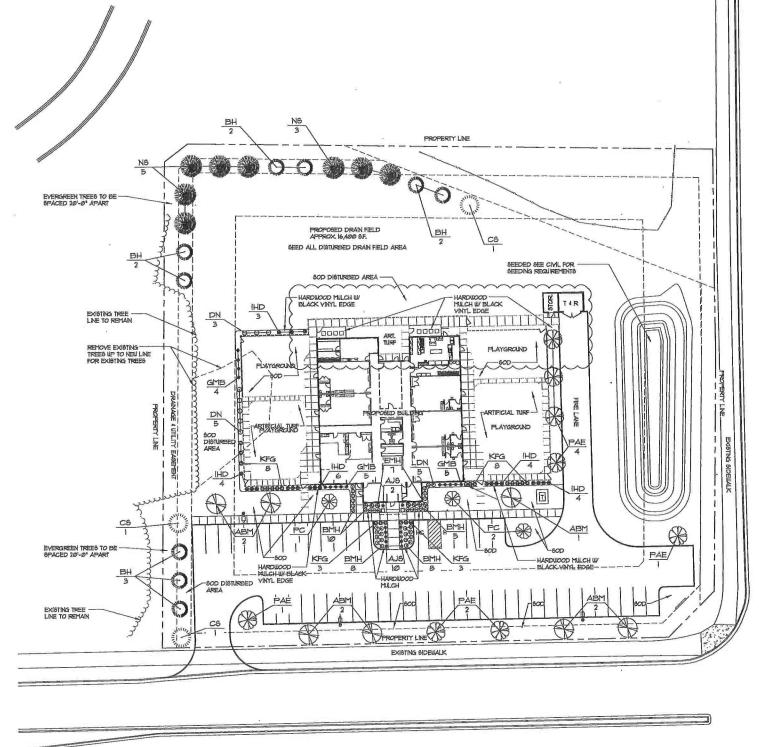
Planting beds for shrubs shall have 3" - 4" of 1-1/2" washed River rock mulch. No weed barrier fabric to be used. Seperation of stone mulch from sod shall be by 4" vertical (commercial grade) black poly edging. Edging shall be placed and staked with smooth curves and straight lines.

Organic black topsoil shall be spread over site where landscaping or sad to be placed, or as per City code. Double shredded dark brown hardwood mulch 4" deep shall be provided around all new trees.

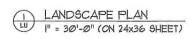
Field adjust tree and shrub locations to fit site and avoid utility locations and any changes that may have occurred to the buildings exterior and/or site in general.

Construction and soil types to be determined by the elte Engineer

Contractor to field adjust foundation shrubs to best suit space and building's architecture



RADISSON RD NE





Rosa Architectural Group Inc.

1084 Sterling Street St. Paul, Minnesota 55119 tel: 651-739-7988 fax: 651-739-3165

GROWING GENERATIONS

RADISSON RD. NE & **BUNKER LAKE** BLVD. NE HAM LAKE, MN

BUNKER

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CLASSIC CONSTRUCTION

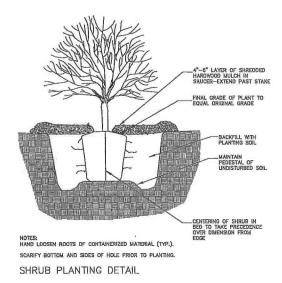
PH: 763-434-8870 18542 ULYSSES ST. NE EAST BETHEL, MN

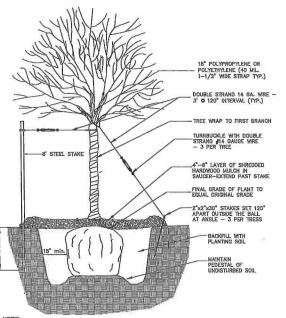
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROPESSIONAL UNDER THE LAWS OF THE STATE OF MINNESOTA.
PRINT NAME:
SKIJNEDN
DATE: RED, NO.
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.
REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM DULY UCENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINT NAME RUSSELL R. ROSA PRINT NAME
REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

PROJECT NUMBER: 22103 DATE: APRIL 5, 2021 DRAWN BY: CHECKED BY RR REVISIONS: 4/15/21

LANDSCAPE PLAN

@ COPYRIGHT 2021 ROSA ARCHITECTURAL GROUP

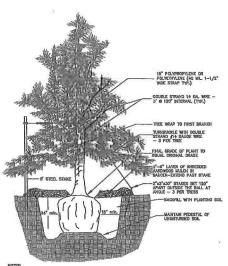




NUILES THE CONTRACTOR'S OPTION TO STAKE TREES: HOWEVER, THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTAINING TREES IN A PLUMB POSITION THROUGHOUT THE GUARANTE PERSON.

SCARIFY BOTTOM AND SIDES OF HOLE PRIOR TO PLANTING.

DECIDIOUS TREE PLANTING DETAIL



THIS ALTERNATE METHODS OF THEE STANDIE ALE SHOWN.

IT IS THE COMPARITORISE OFFIDING TO STAND THESE MEDISON, THE CONTRACTOR IS RESPONDED FOR THE MAINTAINED THESE IS A PLICE POPENT THE COMPARITOR SHEED.

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OTHERWISE NOTES.

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Rosa Architectural Group Inc.

1084 Sterling Street St. Paul, Minnesota 55119 tel: 651-739-7988 fax: 651-739-3165

GROWING GENERATIONS

RADISSON RD. NE & BUNKER LAKE BLVD. NE HAM LAKE, MN

CLASSIC CONSTRUCTION

PH: 763-434-8870
18542 ULYSSES ST. NE
EAST BETHEL, MN

HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OF REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DUTY LICENSED ARCHITEC NIDER THE LAWS OF THE STATE OF MINNESOTA. FRANT MANE. RUGGELL R. ROGA STRINT MANE. RUGGELL R. ROGA STRINT MANE. RUGGELL R. ROGA	PRINT NAME:			
HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OF EPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERMISSION AND THAT I AM A DUTY LICENSED ARCHITEC NIDER THE LAWS OF THE STATE OF MINNESOTA. FRANT MANDE. RUGSELL R. ROSA STRANT MANDE. RUGSELL R. DOJA.	BIGNED;			
REPORT WAS PREPARED BY ME OR UNDER MY DIRECT UPPERSION AND THAT I AM A DUTY LICENSED ARCHTEC HOREX THE LAWS OF THE STATE OF MINISCIA. PRINT MADE RUSSELL R. ROSA BOOKDY. 246.721 16.723	MTE:		ED. NO	
	PRINT NAME:) bur	L R.	da
	PROJEC [®]	NOWREK:		22103
DATE: APRIL 5, 2021	PROJECT DATE:	NUMBER:		

LANDSCAPE DETAILS

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CHECKED BY: REVISIONS:

Meeting Date: 04/26/2021

CITY OF HAM LAKE STAFF REPORT

To:

Planning Commission

From:

Jennifer Bohr, Zoning & Building Clerk

Subject:

Discussion of potential changes to Article 9-220

Introduction:

At the April 19, 2021 City Council meeting, Councilmember Jesse Wilken stated two Conditional Use Permits were approved at the meeting for a couple businesses occupying office/warehouse in suites in CD-2 zoning but the conditions listed were minimal. Councilmember Wilken stated Article 9-220 should be reviewed. The City Code allows offices and office buildings in the CD-1 and CD-2 zoning districts and enclosed storage and warehousing in the CD-2 zoning district as permitted uses but requires a Conditional Use Permit for an office/warehouse use in CD-1 & CD-2 zoning. The City of Ham Lake wants to be considered a business-friendly city. Councilmember Wilken stated the City Code should be updated and less restrictive in some areas, such as in the CD-2 zoning district, to reflect this.

Excerpt from April 19, 2021 City Council Minutes

11.3 <u>Discussion of Article 9-220 of the City Code</u>

Councilmember Wilken stated that some of the Conditional Use Permits that were approved earlier in the meeting are for properties located in CD-2 Zoning (Commercial Development Tier 2) and are to operate office/warehouse businesses; Commissioner Wilken feels that an office/warehouse business should be a permitted use in CD-2 Zoning. Councilmember Wilken stated the City Code should be reviewed and one of the changes should be to allow an office/warehouse as a permitted use in CD-2 Zoning. Councilmember Kirkeide agreed with Councilmember Wilken. It was the consensus of the City Council to refer the review of Article 9-220 of the Ham Lake City Code to the Planning Commission for review.

Discussion: The City Council would like the Planning Commission to review Article 9-220 of the City Code and recommend amendments they feel should be made.

- 9-220 Mercantile Districts The land uses described in Article 9-220 are intended to be applicable to developments which utilize subsurface sewage treatment systems (SSTS), and to developments which use approved combined sewage treatment systems. All building permits and Certificates of Occupancy in the Mercantile Districts shall require the review and approval of the City Council, after review and recommendation by the Planning Commission, excepting building permits and/or certificates of occupancy being issued for an alteration to an existing structure under circumstances in which the land use will be unchanged, and in which the alteration will not materially affect parking requirements, stormwater runoff, traffic, sewage treatment needs or aesthetics.
 - 9-220.1 <u>Standards Common to All Mercantile Districts</u> The following standards shall apply to all of the mercantile districts as listed in Article 9-220.
 - **a)** Paving All parking lots, drives and surfaces upon which the public shall have access shall be paved according to specifications to be established by the city's engineer;
 - **b) Drainage** Surface water drainage and ponding needs shall be implemented in the manner directed by the city's engineer;
 - **c)** Landscaping Landscaping shall be implemented in the manner provided in Article 11-1800;
 - d) Setbacks for Paved Areas There shall be a ten foot setback between any lot line and the back of curb of any parking lot or driveway, and a six foot setback between the back of curb of any parking lot and any building;
 - e) Buffering When any mercantile land use is located adjacent to a residential area, it shall be screened by opaque fencing, vegetation, or both;
 - f) Refuse Containers Refuse containers shall be stored in locations which are completely screened from outside view; hazardous materials shall be stored and disposed of in the manner provided by law;
 - g) Parking Lots and Lighting Off-street parking shall be provided for all patrons and employees. The Zoning Officer shall maintain a schedule of parking requirements, to be ratified from time to time by resolution of the City Council, to serve as the general guideline for the establishment of parking requirements, subject to modification by the City Council where merited. Security lighting shall be permitted, and may be required on review of site plans, but shall be directed away from adjacent properties. No light or combination of lights that cast light upon a Residential Land Use shall exceed 4 foot candle meter reading as measured at the residential property line. All measurements shall be made after dark at the property line or edge of roadway.

- h) Off-Street Loading All deliveries and bulk pickups of merchandise, inventory and supplies shall be made to loading facilities preferably located in the rear of the building, which loading facilities shall be sufficient to enable the prompt and safe transfer of goods.
- i) Signage All signage shall conform to the provisions of Article 11-300.
- j) Special Considerations Notwithstanding the limitations as to building styles, construction types and exterior treatments, the City Council, after Planning Commission review, may depart from strict adherence to the standards found in Article 9-220, where special conditions merit such departure, and where certain standards are met. Such special conditions and standards may include, without limitation, the following items.
 - i) The departure is not being requested for purely economic reasons;
 - ii) The nature of the business is such that it requires a specific type of building construction in order to improve the business function, such as requirements for sunlight, specialty equipment, interior lighting or the like;
 - iii) The business is a permitted or conditional use in the zoning district;
 - **iv)** The applicant proposes the usage of special aesthetic treatments which provide a superior exterior view, such as landscaping, vegetation screening, berming, or the like;
 - v) The property contains unusual topography, mature vegetation or other features which can be preserved or enhanced to produce an overall superior appearance;
 - vi) The property contains unusual accessibility problems to or from adjacent roadways;
 - vii) The applicant offers to implement more stringent design limitations in certain site plan features than would normally be required, in exchange for being permitted less stringent design limitations in other site plan features.
- **k)** Outside Storage Outside storage and activities for areas zoned CD-3, CD-4, Industrial Park (I-P) and Light Industrial (I-1) shall be as specifically detailed in the Code Sections dealing with those land uses (Articles 9-220.4 through 9-220.7). For areas zoned CD-1 and CD-2, the following provisions shall apply to outside storage,

excepting Fireworks sales and storage, which are governed by the provisions of Article 9-330.6. Unless specifically permitted by this Article 220.1(k), no Outside Storage shall be allowed in any area zoned CD-1 or CD-2.

1) Definitions

- aa) Outside Storage personal property (not fixtures) that are located within the Approved Property Lines of any parcel bearing a CD zoning classification, but which are found outside of an enclosed, roofed building (including temporary structures). Outside Storage does not include Refuse Containers, customer vehicles, employee vehicles parked while the employee is on duty, delivery vehicles while in the process of delivery or pickup, construction materials or vehicles being used in an active construction project on the parcel, legal signs or banners, or legal temporary structures. Except where specifically excepted, Outside Storage does include inventory of the business occupying the parcel.
- **bb)** Inventory goods, except Vehicle Inventory, that are offered for sale in the ordinary course of business of any business occupying the parcel. For auto repair shops, inventory shall also be deemed to mean passenger vehicles or pickup trucks awaiting repair services.
- cc) Vehicle Inventory Automobiles, Trucks, Trailers, Manufactured Homes, Recreational Vehicles, Campers, Camper Tops, Truck Toppers, Boats or other wheeled conveyances that are offered for retail sale at a legal business location whose primary business is the retail sale of one or more of the above items. Rental equipment that may be offered for sale is not Vehicle Inventory. Vehicle Inventory that bears obvious signs that the vehicle is not presently capable of being legally operated or conveyed on a public road is not Vehicle Inventory, including, but not limited to vehicles lacking wheels or inflated tires, operable drive train components, broken windows or lights, required current vehicle registration, missing body parts, such as fenders, doors, hood lids, trunk lids, bumpers, lights or trim.
- dd) Aesthetically Screened Outside Storage Inventory or Vehicle Inventory behind an opaque barrier constructed of masonry or brick, attached to and matching or complementary to the main building, and of sufficient height and design so as to give the appearance that the barrier is a part of the main building. No object shall be stored inside of such a barrier if the object protrudes above the height of the barrier. Any gates through the barrier shall be opaque and of aesthetic design.
- **ee)** Limited Outdoor Displays Temporary displays of merchandise which are normally sold or displayed from within an enclosed retail store locations, but which are temporarily placed not

more than ten feet from an outside wall of the main retail sales building during business hours, and then returned to inside storage during non-business hours."

- **ff) Improvement Stores** Businesses that have as their primary source of revenue the retail sale of plants, seeds, landscaping supplies, produce, or yard statuary.
- gg) 24-Hour Convenience Stores Businesses that sell gasoline at retail, and, from the same store location, also sell groceries, auto supplies, sundries, over-the-counter medications and personal products, sundries and other items for human consumption, and which remain open for business at all times of every day.
- **hh) Approved Property Lines** Are the outside perimeter of the real estate parcel or parcels which were shown on the site plan used for the initial municipal approval of a certificate of occupancy or conditional use permit for a particular operation.
- ii) Pool Stores retail stores that engage in the retail sales of above ground or below ground recreational swimming pools that contain electric filtration devices providing water circulation and filtration in the pool, and under conditions where an inventory of above ground or in ground swimming pools is maintained, connected by water and electricity to a source originating in a permanent retail building located on the same parcel. A Pool Store shall not be considered a retail store for the purposes of determining permitted uses under Article 9-220.2 (b) or 9-220.3(b).
- **jj)** Screened Outside Storage is Inventory or Vehicle Inventory behind an opaque barrier constructed of wood, metal, plastic, masonry, brick or earthen berm, or which is behind an opaque barrier composed of existing buildings or other structures on the property, or which is behind a semi-opaque barrier of vegetation that substantially conceals the storage from outside view.

2) Permitted Outside Storage

- **aa)** Vehicle Inventory is permitted Outside Storage on any CD-1 or CD-2 parcel in connection with a business that is legally permitted to sell Vehicle Inventory. If specifically permitted by the conditions of any Conditional Use Permit or Temporary Conditional Use Permit for any such parcel, vehicles that do not meet the definition of Vehicle Inventory may also be permitted Outside Storage.
- **bb)** Aesthetically Screened Outside Storage is permitted outside storage if used as a condition of approval of any site plan, Conditional Use Permit or Temporary Conditional Use Permit on any CD-1 or CD-2 parcel in connection with the new construction of a main commercial building on the parcel.

- **cc)** Limited Outdoor Displays are permitted Outside Storage in both the CD-1 and CD-2 districts. If the business is a 24-Hour Convenience Store, the Limited Outdoor Display need not be moved indoors, but the business shall at all times maintain a clear pedestrian path on sidewalks that is at least 36 inches in width.
- (dd) Inventory is permitted Outside Storage for Improvement Stores and Manufactured/Prefabricated Structure Sales but must be separately identified on the initial site plan submitted with the initial request for certificate of occupancy or conditional use permit, and must be stored only in conformance with that site plan. Bins or containers housing the Inventory shall also be permitted Outside Storage for Improvement Stores and Manufactured/Prefabricated Structure Sales as shall be other items necessarily incident to the storage, maintenance or protection of the Inventory.
- **ee)** No Outside Storage shall be permitted for any business unless the storage is within the Approved Property Lines.
- **ff)** Pool Stores may display above ground or below ground swimming pools as Permitted Outside Storage only on property under conditional use permit, subject to conditions to be established by the City Council, which must include, at a minimum, the following:
 - 1) Pool water must be maintained in a sanitary condition;
 - **2)** Below ground pools must be surrounded by code-compliant fencing;
 - 3) Above ground pools must be constructed in a codecompliant method relative to either fencing or sufficient elevation to prevent accidental entry into the pool;
 - **4)** Adequate security fencing around the storage display area must be installed to discourage after-hours entry into the pool storage area;
 - 5) Reasonable screening from outside view shall be installed;
 - **6)** All sources of water and electricity shall be connected to the pools in a code-compliant manner;
 - 7) Only pools that are intended for use with circulating filters shall be permitted outside; no "kiddy pools", wading pools or inflatable pools shall be permitted to be displayed outside.
 - 8) Winter storage of outside pools shall be done in a manner that covers the pool surface and prevents the accidental entry into the pool:
- gg) Screened Outside Storage is permitted outside storage if used as a condition of approval of any site plan, Conditional Use Permit or Temporary Conditional Use Permit on any CD-1 or CD-2 parcel involving pre-existing main buildings or structures that:
 - 1) Historically utilized outside storage in connection with business operating on the property, and which uses were never abandoned;

2) Do not involve replacement or major remodeling of the existing structures, but utilizes the existing structures for the business to be operated;

Approval of Screened Outside Storage is discretionary with the City Council.

- i) **Revocation** All permits and certificates of occupancy issued in the mercantile districts are subject to revocation under the provisions of Article 9-240.
- 3) Office/Warehouses Office/Warehouse is a term given to a structure that is designed to have office space in front, behind which is situated an open bay or bays, with the office and bay space to be occupied by a single business. The office space and the bay space may also include area for retail sales. The bay space may also be used for manufacturing, other industrial activity, or warehousing. Building Permits may be issued for Office/Warehouses in any Mercantile District as found in Article 9-220. However, specific uses within each Office/Warehouse are subject to the Permitted Use, Conditional Use and Temporary Conditional Use restrictions for the given zoning district in which the Office/Warehouse is constructed. The issuance of a building permit for an Office/Warehouse does not confer upon the property owner the right to use any portion of the structure in a manner inconsistent with the use restrictions for the zoning district in which the structure is located. All new tenants or occupants of any Office/Warehouse must observe the same conditions for site plan or other approval, as would any other occupant. Further, if the zoning district in which the Office/Warehouse is to be constructed contains restrictions on building materials or design, those restrictions must be followed.

9-220.2 Commercial Development 1 (CD-1)

The CD-1 zone is intended to apply to certain commercial uses on lands abutting the city's only major thoroughfare, Trunk Highway 65. In that these lands have high visibility to the traveling public, it is considered important to the preservation of land values in general, as well as important to the continuing ability of the city to generate the establishment of quality commercial development and the concomitant tax and employment base, that structures in the CD-1 zones observe specific construction and aesthetic standards, which are listed below. No usage shall be permitted in the CD-1 zone which does not observe the standards found in Article 9-220.2 (a) below.

a) Standards for Site and Building Construction

i) Except for structures housing public utility feature, no metal or pole-type building shall be permitted;

- ii) Exterior wall surfaces shall be of brick, decorative masonry, stone, precast panel, architectural concrete, glass, stucco or wood framed with horizontal lap siding;
- iii) No galvanized surfaces shall be permitted, either on roofs or siding;
- iv) All roofs shall be colored and shall incorporate a minimum 18-inch soffit on the eave edge of the roof;
- v) All roofs shall have a minimum 12-inch overhang on the gable ends;
- vi) All roofs have a 9.5 inch fascia;
- vii) Standing metal seam roofing shall be permitted (Minimum 24 gauge, non-galvanized);

b) Permitted Uses (Including uses that are ancillary to the main use)

- Clubs and Lodges
- Medical Facilities
 - Assisted Living Facilities
 - Chiropractic
 - Clinics of all medical disciplines
 - Dental
 - Diagnostic Facilities
 - Hospitals
 - Laboratories
 - Nursing Homes
 - Treatment Rooms and Centers
 - Veterinary Clinics
- Hotels, Motels and Lodging Houses under Article 11-1100
- Offices and Office Buildings
- Park and Ride Lots
- Post Offices
- Public Utilities (metal or pole type construction allowed)
- Recreational Facilities (indoor unless noted)
 - Batting Cages
 - Billiard Parlors
 - Bowling Alleys
 - Dance/Gymnastic Studios
 - Health Clubs
 - Martial Arts Studios
 - Miniature Golf Courses (outdoor)
 - Paintball or Laser Tag Facilities
 - Parks (outdoor/publicly owned)
 - Roller Skating Facilities
 - Shooting Range
 - Skateboard Facilities
 - Virtual Golf Facilities
- Restaurants, including liquor service
- Retail Facilities engaged in the sale of goods (Excluding)

Motor Vehicle/ Boat/RV/Camper Sales), from freestanding one-store locations, shopping centers, strip malls or enclosed malls, including, but not limited to:

- Antique Stores
- Appliance Stores
- Automobile Parts Stores (new parts only)
- Bakeries
- Bicycle Stores
- "Big Box" Stores (subject to Article 9-400)
- Book Stores
- Butcher Shops/Meat Markets
- Camera Stores
- Candy Stores
- Carpet Stores
- Clothing Stores
- Coin Stores
- Convenience Stores
- Cosmetic Stores
- Discount Stores
- E-Cig Stores
- Electrical, HVAC and Plumbing Equipment Stores
- Electronics Stores
- Fireworks (under Article 9-330.6)
- Floral Stores
- Furniture Stores
- Gift Shop
- Grocery Stores
- Hardware Stores
- Health Stores
- Hobby/Game Stores
- Housewares Stores
- Improvement Stores (Lawn & Garden) as defined in Article 9-220.1 (k)(1)(ff)
- Jewelry Stores
- Liquor Stores
- Luggage Stores
- Music Stores
- Office Supply Stores
- Optical Supply Stores
- Paint/Wallpaper Stores
- Pet Stores
- Petroleum product sales (excluding vehicle repair)
- Pharmacies
- Shoe Stores
- Sporting Goods Stores
- Souvenir Stores

- Thrift Stores
- o Tobacco Stores
- Video Stores
- Schools and Colleges
- Service Businesses
 - Appliance Repair Shops
 - Barber Shops
 - Beauty Shops
 - Car Washes
 - Day Cares (licensed)
 - Dry Cleaners
 - Electronics Repair Shops
 - Financial Institutions
 - Funeral Homes
 - Government Buildings
 - Insurance Agencies
 - Law Offices
 - Locksmiths
 - Manicure/Pedicure/Nail Care shops
 - Pet Grooming Shops
 - Photography Studios
 - Print Shops
 - Shoe Repair Shops
 - Specialty Retail Shops
 - Tailor Shops
 - Tanning Facilities
 - Travel Agencies
- Small Engine Sales and Repair
 - Air Compressors
 - Chain Saws
 - Garden Tractors
 - Lawn Mowers
 - Leaf Blowers
 - Other Motorized Gardening Equipment
 - Power Rakes
 - Power Washers
 - Rototillers
 - Shop Vacs
 - Snowblowers
 - Woodchippers
 - Woodsplitters
- Theatres
- Worship Centers and ancillary features owned by the entity

that owns the Worship Center, including classrooms, recreational features, residences for staff, offices and kitchen/dining.

c) Conditional Uses

- Automobile Repair Shops (Passenger Vehicles, Pickup Trucks, ATVs, Snowmobiles, Motorcycles, Jet-skis, Boats and other Marine Equipment)
- Equipment Rental Businesses
- Light Manufacturing, defined as follows:

The fabrication or processing of goods for sale to retailers, wholesalers, other manufacturers or at retail that takes place entire within an enclosed building and that meets the following criteria:

- a) The business does not generate any noise, odor or vibration detectable from adjoining properties, other than that which occurs in the normal course of business during shipping and receiving activities;
- b) There is no outside storage of any item except Aesthetically Screened Outside Storage as defined in Article 9-220(k)(1)(dd) of this Code.
- c) No outside cranes or booms are located on the site;
- d) Retail sales of the business products can occur on the premises if the commodities are the commodities manufactured on site.
- Manufactured/Prefabricated Structure Sales (including, without limitation, housing units, gazebos, storage sheds, playhouses, screened porches, and shelters) together with incidental furnishings such as lawn chairs and picnic tables
- New Vehicle Sales (must have indoor showroom) limited to the following:
 - Note: Where the word "vehicle" is used, the term is hereby defined to exclude manufactured homes, busses, semitractors, semi-trailers over 30 feet in length, and heavy construction equipment, such as bulldozers, backhoes, road graders, earth moving equipment, cranes and excavators.
 - ATV's (all-terrain vehicles)
 - Automobiles
 - Boats
 - Campers
 - Golf Carts
 - Motorcycles, Motorbikes and Scooters
 - Recreational Vehicles
 - Snowmobiles
 - Commercial Trucks
 - Pickup Trucks
 - Trailers less than 30 feet in length
- Office Warehouses
- Pool Stores

- Residential Treatment Centers
- Service Businesses
 - Landscaping
- Sexually Oriented Business under Article 9-330.3
 - Self-Storage Facilities, limited to properties on which self-storage facilities were in existence as of January 1, 2014, "Properties" as used herein is intended to include "Expansion Parcels", which are tax parcels that were on said date contiguous to and in common ownership or control with the parcel on which self-storage facilities were in use on said date and which were lacking a permanent structure/usage and/or providing a parking area or driveway serving the parcel on which the self-storage units were located. Expansion Parcels do not include parcels that are separated by public roads from the parcel on which the self-storage units were located on said date. It is the intent of this language that the self-storage use be permitted to expand onto the Expansion Parcels if a Conditional Use Permit for such expansion is approved. Notwithstanding these provisions, all self-storage uses shall be considered nonconforming uses and if abandoned or damaged and unrepaired, are subject to the same criteria for termination of allowed usage status as for other non-conforming uses as provided in Article 9-150.1 of this Code.
- Temporary Commercial Structures under Article 9-330.7
- Therapeutic Massage under Article 9-330.5
- Transportation Facilities
- Used Vehicle Sales limited as follows
 - Collector Cars
 - Motor Homes and Recreational Vehicle Trailer Sales*

*(A "Trailer", for the purposes of this code, shall mean a conveyance which is primarily designed to be towed behind a motor vehicle on public highways for usage in camping at bona fide campgrounds or RV parks. The conveyance commonly known in the industry as a "Park Model" is not to be considered a Trailer.)

- Facilities that meet the following criteria:
 - The lot on which the use is proposed is presently and lawfully used by a business whose primary business is in the automotive industry such as automobile specialty shop, auto repair or recreational vehicle sales lot; and
 - The sales are limited to passenger cars and pickup trucks; and
 - The primary business activity in the automotive industry that qualified the lot to be used for Used Vehicle Sales must continue to be the primary business activity on the lot; Used Vehicle Sales shall be an incidental use only, and shall not replace the primary business activity; or

 The used vehicle inventory is part of the overall inventory of a New Vehicle Sales operation, limited to vehicles that have been taken in trade by the owner

d) Temporary Conditional Uses Only

Certain modular housing sales lots may be allowed as Temporary Conditional Uses in the CD-1 areas under the following limited conditions:

- i) The permit shall be for no longer than five years;
- ii) No housing units shall be permitted which are manufactured homes, which were at one time manufactured homes, or which could become manufactured homes with the addition of wheels installed in a preengineered or pre-planned receptacle. It is the intention of this usage that the only housing units permitted for display in such areas are single family dwellings of wood frame construction, designed for placement on a permanent foundation in a typical single family residential neighborhood, and not designed for or commonly found in mobile home parks.
- iii) A single housing unit may be used as a sales office.
- iv) Marketing of housing units shall be only to consumer-homeowners, and not to retailers or wholesalers;
- v) All units shall be placed on concrete blocks, at least two courses in height, giving the appearance of a full basement.
- vi) All units shall be completely finished on the exterior to give the appearance that the unit is inhabited as a part of a quality single family neighborhood. Units may be assembled from pre-constructed component parts on site, but may not be constructed from scratch on the site. Assembly of any display unit shall be complete (weather permitting) within 14 days after commencement of assembly. Each display unit shall obtain a building permit from the City prior to commencement of assembly. A display unit, once in place, shall not be replaced for at least 24 months.
- vii) All surfaces upon which the public is expected to drive, park or walk shall be paved with bituminous or concrete material according to specifications to be established by the City's engineer.
- viii) All display units shall have an attached garage for two cars or more.
- ix) A Site Plan shall be reviewed and approved by the City Council, after review and comment by the Planning Commission, which plan shall limit the number of units to be displayed, provide a landscaping plan, show the locations of all drives, walkways and parking areas, and provide photographic samples of the styles of units to be displayed.
- x) The City Council may attach such other conditions to the Temporary Conditional Use Permit as are deemed appropriate or necessary to protect public safety, health or welfare, or to protect nearby property values.

9-220.3 Commercial Development II (CD-2)

The CD-2 Districts are located adjacent to the CD-1 Districts, and constitute a second tier of commercial activities along the T.H. 65 corridor. These

districts also have importance in presenting a visually pleasing image to the traveling public, but are less visible from the T.H. 65 roadway than the CD-1 districts.

a) Standards for Site and Building Construction

- i) Metal or pole-type buildings shall be permitted if surfaces meet the requirements of ii below, and, provided that no galvanized surface may appear, all roofs shall be colored and incorporate a minimum 18 inch soffit on eave edges, 12 inch overhang on gable ends, and 6 inch fascia.
- ii) Modern metal paneling or architectural metal panel may be used for roof and exterior wall surfaces. On all exterior wall surfaces, the surface may be modern metal paneling, used in combination with brick, decorative masonry, stone, precast panel, architectural concrete, architectural panel, glass, stucco or wood framed with horizontal lap siding;

Modern metal paneling may be used for roof and exterior wall surfaces, provided that on the wall sides facing T.H.65, no more than 25% of the surface area may be modern metal paneling, with the remaining portion of these surfaces being brick, decorative masonry, stone, precast panel, architectural concrete, glass, stucco or wood framed with horizontal lap siding; For other wall surfaces, there shall be a wainscot at least 42 inches in height which is composed of brick, decorative masonry, stone, precast panel, architectural concrete, glass, stucco or wood framed with horizontal lap siding;

b) Permitted Uses (Including uses that are ancillary to the main use)

- All Permitted Uses in the CD-1 District
- Broadcasting Studios
- Building Supply Yards/Lumber Yards
- Enclosed Storage and Warehousing
- Landscaping Businesses
- Manufacturing involving no non-enclosed storage
- Public Utilities (metal or pole type construction allowed)
- Research laboratories
- Used Vehicle Sales limited to the following:
- ATV's (all-terrain vehicles)
- Automobiles
- Boats
- Campers
- Golf Carts
- Motorcycles, Motorbikes and Scooters
- Recreational Vehicles
- Snowmobiles
- Commercial Trucks

- Pickup Trucks
- o Trailers less than 30 feet in length
- Utility Companies

c) Conditional Uses

- All conditional uses or temporary conditional uses in the CD-1 District
- Flea Markets under Article 11-1500
- Kennels
- Pawn Shops under Article 11-1300
- Truck Terminals as defined as a location where commercial trucks are parked and/or stored
 - Self-storage facilities, but not including the limitations and conditions imposed for such facilities as found in Article 9-220.2 (c).
 - Concrete Masonry

9-220.4 Commercial Development III (CD-3)

The CD-3 zones are areas of the City that are located outside of the TH 65 Corridor, which are suitable for certain institutional actives; neighborhood retail, or which operate under historic permits, and which involve no outside storage of supplies, equipment or inventory excepting motor vehicles used in the business (unless specifically allowed by historic permit) and except as stated below:

a) Permitted Uses (Including uses that are ancillary to the main use)

- Campgrounds (may include outside storage of firewood, equipment, picnic tables and other items common to a campground environment)
- Churches, including ancillary structures such as classrooms, offices, recreational facilities, parsonages or other dwellings for occupancy by church staff
- Convenience Stores including outdoor displays and inventory
- Financial Institutions
- Governmental, Business and Professional Offices
- Land Uses Specifically Authorized by Development
- Agreements in effect in whole or in part prior to January 1, 2000
- Licensed Day Care Centers
- Medical Clinics, including general medicine, specialty medicine, dental, optical and chiropractic
- Off Sale Liquor Stores
- Personal Services, including Beauty Shops and Barber Shops
- Petroleum Products Sales including outdoor displays and

inventory

- Plant Nurseries, Garden Centers and Produce Markets (including limited outdoor display)
- Veterinary Clinics

b) Conditional Uses

None

9-220.5 Commercial Development IV (CD-4)

The CD-4 zones are areas of the City that are located outside of the TH 65 Corridor, which are suitable for certain light industrial or construction trades, and which involve no outside storage of supplies, equipment or inventory excepting motor vehicles used in the business.

a) Permitted Uses (Including uses that are ancillary to the main use)

- Electrical, HVAC, Plumbing, Septic Contracting Businesses
- Indoor Storage
- Light Assembly
- Light Manufacturing or Re-Manufacturing
- Office/Warehouse
- Personal Services, including Beauty Shops and Barber Shops
- Small Retail Sales Facilities

b) Conditional Uses

- None
 - 9-220.6 <u>Industrial Park (I-P)</u> This zoning category shall apply to mercantile parcels which are intended for manufacturing, warehousing, machining, tooling, fabricating, assembly, processing, equipment storage, storage of raw materials or supplies, and the like, as opposed to mercantile parcels used primarily for office or retail activities. Limited office space activity may occur in an Industrial Park, but only as incidental to the main industrial usage of a given parcel.

a) Physical Requirements

- i) <u>Building Materials</u> All building construction shall be of masonry or of products made from concrete or materials related to concrete. Metal framed with architectural panel shall be allowed, but no other metal buildings shall be allowed in any I-P District.
- **ii)** Screening Any I-P area developed after the effective date of this ordinance which is adjacent to land which is now or which is intended to become a residential land use shall be completely fenced by attractive, opaque fencing of sufficient height to completely screen all future activities within I-P area. Opaque fencing shall be deemed to mean only solid wood or solid metal components. Fence height

shall be as determined upon site plan review by the *Planning Commission*, which may also require different screening material, including earthen berming.

- **iii)** Paving All drives, parking lots or sidewalks which will be utilized by the general public or by employees of the business shall be paved in accord with standards established by the City's engineer. Equipment storage areas may be surfaced with Class V or other material if the area so surfaced is not to be open to the general public. **iv)** Landscaping Article 11-1800 of this code shall apply to landscaping in I-P areas.
- b) Usage Limitations All uses in the I-P areas shall be subject to the same review procedures as are found in Article 9-220 for Mercantile Areas. The following specific usage limitations shall apply to the I-P areas:
 - i) Outside Storage All outside storage shall be fenced for security purposes. Trash containers or accumulations of waste or debris of any kind shall be completely screened from view from outside the lot. All waste and debris shall be properly and promptly disposed of, storage of such material being allowed only for the time interval reasonably necessary to arrange for regular disposal service. During hours in which the business activity within the main building is not being conducted, all storage areas shall be gated and locked. Machinery and vehicles stored on the premises shall be secured so as not to be readily operable or moveable during non-business hours. No unregistered motor vehicles or inoperable vehicle or machinery shall remain on the premises.
 - ii) Semi-Trailers, Large Trucks and Truck-Tractors Semi-trailers may be stored within the fenced area of an I-P lot, provided that each semi-trailer shall be fully licensed and road-worthy. The use of dilapidated, inoperable or otherwise non-functioning semi-trailers for warehousing or other purposes shall be prohibited. Large trucks and truck-tractors may likewise be stored within the fenced area, but shall likewise be fully and currently licensed and operable. Each semi-trailer shall have a parking stall with minimum dimensions of 12 feet by 125 feet.
 - <u>iii) Noise</u> Noise generated from lots in the I-P areas that are audible in *Residential Land Uses* shall not exceed standards as established by the Minnesota Pollution Control Agency.
 - **iv)** Lighting No light or combination of lights that cast light upon a Residential Land Use shall exceed 4 foot candle meter reading as measured at the residential property line. All measurements shall be made after dark at the property line or edge of roadway.
 - v) Fumes and Odor Fumes and odors generated from lots in the I-P districts shall not exceed published standards as established by

the United States Environmental Protection Agency, herein adopted by reference.

(c) Permitted Uses

- Assembly Businesses
- Cabinetry Assembly/Manufacturing Shops
- Construction Companies
- Electrical Companies
- Equipment Rental Businesses (large industrial equipment)
- Equipment Repair or Service Businesses
- Fabricating Companies
- Government Storage/Repair Centers
- Machine Shops
- Manufacturing Plants (Excepting Bituminous or Concrete)
- Motor Vehicle Sales limited to the following:
 - ATV's (all-terrain vehicles)
 - Automobiles
 - Boats
 - Campers
 - Golf Carts
 - Motorcycles, Motorbikes and Scooters
 - Recreational Vehicles
 - Snowmobiles
 - Commercial Trucks
 - Pickup Trucks
 - Trailers less than 30 feet in length
- Plumbing and HVAC Companies
- Public Utilities (metal or pole type construction allowed)
- Textile Companies
- Tooling Companies
- Utility Companies
- Warehouses

(d) Conditional Uses

- Bituminous or Ready-Mix Concrete Plants
- Chemical/Paint Companies
- Uses which are normally permitted but which involve some retail sales
- Heavy Equipment Sales
- Trucking Companies
- Transfer Stations for Demolition Debris under the following conditions:

- 1) The Transfer Station is fully licensed/permitted by appropriate county, state and federal agencies having jurisdiction over its activities;
- 2) The term "Demolition Debris" refers only to concrete, stone, asphalt, wood, plastic, metal or composites. No shingles, putrescible items or hazardous materials shall be intentionally processed at the Transfer Station. Any putrescible items or hazardous materials found to be on the premise shall be handled and disposed of properly and legally.
- 3) The location of the actual site within the I-P area is in a sufficiently remote and screened portion of the area so as to eliminate disturbance of nearby existing or possible future residential neighborhoods through noise, light, vibration, odor, fumes, unsightliness or dust.
- 4) The activities at the Transfer Station shall be limited to the reception of Demolition Debris on roll-off containers or dump trucks, all contents of which are to be placed on the floor of a completely enclosed building, where the materials will be sorted and re-shipped to recyclers or landfills, in a manner consistent with all applicable regulations and codes. No outside storage of demolition debris will be permitted.
- **9-220.7** <u>Light Industrial (I-1)</u> I-1 zones are areas which are used for limited manufacturing purposes, involving frequent truck traffic for pickup and delivery of products and materials, and which require a significant portion of the manufacturing process to occur outside of enclosed buildings.

a) Permitted Uses

- Ready Mix Concrete Plants
- Priestesses Concrete Plants
- Monument Companies

b) Conditional Uses or Temporary Conditional Uses

None

9-220.8 Commercial Development V (CD-5)

The CD-5 Zones are areas of the City that were designated a Multiple Use Options areas in Chapter 4, paragraph 4.7 of the 2005 Ham Lake Comprehensive Plan which are specifically designated by action of the Ham Lake City Council for rezoning to the CD-5 classification, and may also include other lands that are zoned R-A but which are found to either be located in close proximity to the intersections of minor or major arterials, or which abut other land that has been rezoned to the CD-5 classification. Because CD-5 lands will often be found near existing residential areas, or areas expected to develop into residential land uses.

building construction, screening and landscaping are to be of upscale quality, and ongoing grounds maintenance given high priority.

a) Permitted Uses

- Medical/Dental Clinics or Facilities
- Governmental, business and professional offices
- Parks
- Financial institutions
- Veterinary clinics
- Uses ancillary or incident to the above

b) Conditional Uses

The following uses shall be allowed by Conditional Use Permit or Temporary Conditional Use Permit only, after fulfillment of the requirements hereafter outlined.

- Office Warehouses meeting the requirements outlined in Article 9-220.1 and this Article of the Ham Lake City Code
- All Permitted Uses found in areas zoned CD-1 and CD-2 not permitted above, except Fireworks Sales
- Non-profit clubs, lodges or halls
- Institutional Uses (Governmental, Educational and Religious)
- Commercial Recreational Facilities
- Construction Companies
- Enclosed Storage and Warehousing
- Broadcasting Studios and Facilities
- Office Buildings
- Movie Theaters
- Convenience stores

c) Building, Outside Storage, Screening and Fencing Standards

All buildings constructed in the CD-5 districts shall meet the same standards as for buildings in the CD-1 zoning districts, as found in Article 9-220.2(a) of this Code. Outside storage shall meet the same standards as for uses in the CD-1 zoning districts, as found in Article 9-220.1(k) of this Code, in particular as regards screening attached to main buildings. Perimeter fencing shall be opaque and of such quality and appearance as is dictated by the conditions of approval of the Conditional Use Permit, but perimeter fencing may be up to eight feet in height, not counting the height of any beam upon which a perimeter fence may be constructed.

d) Maintenance Standards

The development agreement for each project approved in a CD-5 zone shall include a maintenance covenant guaranteeing the ongoing maintenance of

all buildings, fences, screens, landscaping, paving, curbing or other property improvements. The maintenance covenant shall be assured by an ongoing cash security deposit, Letter of Credit or by an Assessment Agreement permitting the City to complete any unperformed maintenance and to assess the cost thereof against the appropriate property.

e) Application Procedure

The initial application for a change to CD-5 zoning shall include the following, which is to be prepared by a registered land surveyor, registered civil engineer or registered architect:

- If the area is to be subdivided, a sketch plan for platting meeting the requirements of Article 10 of the City Code shall be provided;
- ii) A site plan for each parcel proposed for development that includes:
 - **aa)** The maximum perimeter of the footprint for every building to be constructed;
 - bb) The locations of all parking and drive areas;
 - cc) The locations of all ISTS and wells;
 - dd) The locations of all outside storage areas;
 - ee) The locations of all fencing and screening;
 - ff) The location of all landscaped or open areas and ponding.
- iii) For each proposed parcel, a narrative that states the range of specific land uses to which each parcel may be devoted. If Office-Warehouses are proposed, the range of potential land uses shall be given for each bay in each Office-Warehouse.
- iv) An identification of any variances that will be requested in the project.

f) Conceptual Approval

Following receipt of all of the items required in the application process, the proposal shall be reviewed by the Planning Commission, and then given conceptual approval, conditional approval or rejection by the City Council. Conceptual approval shall confer no "substantial reliance" or other developmental rights on the applicant, and is intended only as a measure of the initial reaction of the appointed and elected officials of the City to the proposed concept. However, in that the eventual rezoning of the property from R-A to CD-5 would require 4 or more affirmative votes of the City Council, Conceptual Approval shall also require 4 or more affirmative votes of the Ham Lake City Council.

g) Public Input

Following Conceptual Approval, the applicant shall submit the following more detailed project plans:

i) Professionally prepared renderings of the outside plan view of all sides of each parcel proposed by the Developer, noting

screening heights. These drawings should accurately portray the future view to the property from all adjoining roads and parcels, and should accurately portray the portions of all areas screened from view;

ii) A detailed landscaping plan showing the location, size and species of all plantings;

iii) A colored site plan detailing the locations of all structures, roads, drives, parking stalls, turn lanes or other infrastructure improvements, open areas and ponding.

iv) A traffic study prepared by a registered professional engineer showing the peak traffic consequences of the project, assuming the most traffic-intensive land uses from the range of land uses reported, and assessing the effect of such traffic on adjacent roads, neighborhoods, and intersections.

For any land uses proposed that are likely to store or frequently have on site any diesel engine vehicles (except non-business passenger vehicles and pickup trucks), selfpropelled construction equipment, other noise-generating motors or devices, or which have loading dock facilities for semi-tractor/trailer deliveries or pickups, a noise study prepared by a qualified acoustical expert predicting the estimated noise levels to be experienced by adjoining properties (except roadways) for a distance of 500 feet from each parcel proposed.

v) A lighting plan showing the location and illumination pattern of all proposed lighting on each parcel;

Upon submission of all of the above, the City Council shall order the conducting of a public hearing on the proposal. In its order for hearing, the City Council shall designate who shall conduct the public hearing (City Council, Planning Commission or both) and what degree and coverage of notice to give to nearby properties, but not to be less notice than is required by law. The City Council may require more than one public hearing, or may recess any public hearing for continuation.

h) Action Following Public Hearing

The public hearing, once conducted, shall be deemed to be the public hearing required by Minnesota Statutes Chapter 462.357 (subd. 3) for Zoning Changes and to be the public hearing required by Article 10-204 of this Code at the Preliminary Plat stage of any subdivision. Notwithstanding the provisions of Article 10-204, for plats submitted in areas proposed for rezoning to the CD-5 classification, some or all of the items normally required for submission before the public hearing (as detailed in Article 10-204 (A) and (B) may, in the discretion of the City's engineer, be submitted following the public hearing. Following the public hearing, the City Council (after review and recommendation by the Planning Commission if appropriate) shall adopt a resolution either rejecting the rezoning or

conditionally approving the rezoning, but such approval always conditioned on the successful completion of any remaining subdivision work and execution of an approved development agreement. If the City Council determines to reject the proposed rezoning, the rejection shall be deemed to also be a rejection of the proposed subdivision, if any.

i) Preliminary Plat Approval

If a subdivision is involved, then following the public hearing, and assuming a conditional approval of the rezoning request, the applicant shall submit the remaining items as required in Article 10-204 of the City Code for Preliminary Plat Approval. The City Council, shall act on the Preliminary Plat Approval after Planning Commission review and recommendation.

j) Final Approval of Subdivision and Rezoning

Following conditional rezoning approval and preliminary plat approval, the City's attorney shall prepare a written development agreement embodying all of the terms and conditions of all previous approvals, and all of the other requirements of this code. Upon approval of the agreement by the City Council, the City Council shall grant final plat and rezoning approval, subject to the execution of the development agreement, including the posting of all required security and municipal fees or deposits, within thirty days after City Council approval. If the applicant fails to execute an approved development agreement within 30 days of City Council approval, then the City Council shall move to reject both the zoning request and the subdivision request.

k) Deadlines for Filing and Completion; Security

The following timelines shall apply to the development of properties developed in the CD-5 districts. The Development Agreement may provide for the posting of reasonable security to guarantee the proper and timely completion of all improvements.

- 1. Projects involving subdivision:
 - **aa)** The plat must be filed within ninety days of the date of final approval.
 - **bb)** All infrastructure improvements in the subdivision must be completed within one year of the date of filing of the plat, except the second lift of bituminous paving, which shall be completed within a time frame established by the City's engineer.
 - **cc)** Office-warehouses may not be constructed as separate bays, and all bays of a given office-warehouse must be constructed together, in one construction season.
 - **dd)** The applicant shall observe an absorption rate of not less than one building unit each six months until all lots in the subdivision have been sold and improved with a building. The City shall grant reasonable extensions to this absorption rate where market conditions warrant.

2. Where no subdivision of land is involved, the applicant shall apply for a building permit for all structures proposed in the project within 90 days after final approval, and all site improvements, including completion of all buildings, shall be complete within one year of the date of issuance of the building permit.

9-220.9 Traditional Use Overlay Districts (TOD) TOD districts are areas that carry a CD-1 or CD-2 zoning category, but which have been specially designated for the exceptions stated in this section by reason of having historically carried on a specific land use or land uses that have involved a significant investment in infrastructure and/or buildings. Properties included in the following designation as qualifying for TOD treatment (see Article 9-220.94) were properties in the CD-1 and CD-2 zoning districts which carried an estimated value for improvements to real estate that were at least 50% of total market value on Anoka County property tax records for the year of enactment of this Article (2010), or, if contiguous parcels were owned by the same party and the aggregate of the two parcels met the above criteria, then both parcels were included for TOD treatment. If the owner of any property in a CD-1 or CD-2 zoning district that is not included in the initial designation for TOD treatment wishes to have their property included, a condition of approval will be that the owner demonstrate to the satisfaction of the Ham Lake City Council that the value of improvements on the parcel is at least 50% of the total market value expressed on County Tax records for the year in which application is made.

9-220.91 Permitted Uses, Conditional Uses and Temporary Conditional Uses The uses detailed in Article 9-220.3 (b) and (c) shall apply to TOD districts, regardless of whether the underlying zoning in such districts is CD-1 or CD-2.

9-220.92 Exemption from Certain Building Standards

The owner of a parcel carrying the TOD designation shall not be required, as a condition of approval of any site plan or building permit, to upgrade existing facilities to meet building standards found in Articles 9-220.2(a) or 9-220.3 (a). New structures constructed on such parcels, such as expansions of existing buildings, may also be exempted from such standards on approval of the City Council if the adherence to the exterior appearance standards required by the foregoing code sections would not significantly improve the overall aesthetic appearance of the property.

9-220.93 Exemption from Certain Site Standards

The provisions of Article 9-220.1 (c), (e) and (h) shall not apply to Parcels carrying the TOD designation.

9-220.94 Designation of Specific Parcels

Parcels carrying the TOD overlay designation shall be identified by PID number, and shall include the following:

17-32-23-21-0005 17-32-23-21-0022 17-32-23-12-0006 17-32-23-12-0007 17-32-23-12-0008 20-32-23-42-0004 20-32-23-13-0011