



Anoka County
MINNESOTA
Respectful, Innovative, Fiscally Responsible

ANOKA COUNTY TRANSPORTATION DIVISION

1440 BUNKER LAKE BLVD NW
ANDOVER, MN 55304
763-324-3176
highwaypermits@co.anoka.mn.us

RIGHT OF WAY
PERMIT NUMBER

CSAH
CR

APPLICATION FOR PERMIT FOR INSTALLATION OF UTILITIES OR PLACING OBSTRUCTIONS ON THE COUNTY HIGHWAY SYSTEM
ALL APPLICANTS MUST BE REGISTERED PRIOR TO PERMIT APPROVAL

WORK TO START ON 04/10/2023

WORK TO BE COMPLETED ON 12/31/2024

DURATION OF JOB 2 years

ARE YOU BEING ASKED TO RELOCATE DUE TO A COUNTY PROJECT? No

ANOKA COUNTY PROJECT NUMBER

APPLICANT NAME Enebak Construction Company

CONTACT PERSON Jacob Fick

ADDRESS 16972 Brandtjen Farm Dr

CITY Lakeville

PHONE NUMBER 952-479-6700

EMAIL jacobf@enebak.com

COMPANY OR INDIVIDUAL PERFORMING WORK Enebak Construction Company

CONTACT PERSON Jacob Fick

PHONE NUMBER 6123888605

EMAIL jacobf@enebak.com

ADDRESS OF WORK SITE 11967 & 11985 Radisson RD NE

CITY Lakeville

NATURE OF WORK Removal of two private driveways, Construction access to site, minor grading to tie in existing grades in ROW

METHOD OF INSTALLATION/CONSTRUCTION Dozer and back hoe

SURFACE TO BE DISTURBED SITE PLAN WILL TRAFFIC BE OBSTRUCTED? TRAFFIC CONTROL PLAN

X DITCH

No

GRAVEL



BITUMINOUS

CONCRETE

NONE

DEPTH FROM SURFACE Filling 0'-2' to tie in grades

SIZE AND KIND OF PIPE/CABLE none

NUMBER OF EXCAVATIONS 0

SIZE OF EXCAVATIONS NA

LOCATION OF EXCAVATIONS start filling 3' back of curb to the East, starting at 0' of fill just east of CSAH 52 back of curb and adding fill to regrade properties at 11967 and 11685 Radisson Rd.



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GENERAL INFORMATION

ONE PERMIT MUST BE APPROVED FOR EACH COUNTY ROAD ON WHICH WORK WILL BE PERFORMED PRIOR TO ANY WORK WITHIN THE RIGHT OF WAY BY ANY UTILITY/CONTRACTOR. EMERGENCY CONDITIONS WHICH THREATEN THE SAFETY OF THE PUBLIC AND REQUIRE IMMEDIATE REPAIR ARE EXCEPTIONS TO THIS RULE. UNDER THOSE CIRCUMSTANCES, THE UTILITY/CONTRACTOR, IS PERMITTED TO BEGIN AND/OR COMPLETE THE NECESSARY REPAIRS. ACTD SHALL BE NOTIFIED OF EMERGENCY REPAIRS AS SOON AS FEASIBLE AND A WRITTEN PERMIT IS TO BE COMPLETED WITHIN TWO BUSINESS DAYS OF OCCURRENCE.

A LICENSE-PERMIT BOND IS GENERALLY REQUIRED OF THE CONTRACTOR AS PART OF THE REGISTRATION PROCESS, THE AMOUNT OF WHICH WILL BE DETERMINED BY THE NATURE OF THE UTILITY WORK.

A SKETCH OR DRAWING SHALL ACCOMPANY EACH PERMIT APPLICATION WHICH WILL SHOW THE LOCATION OF THE PROPOSED WORK/UTILITY WITH REFERENCE TO THE COUNTY HIGHWAY CENTER LINE AND RIGHT OF WAY LINE. A COMPLETE SET OF PLANS IS REQUIRED FOR ALL SEWER/WATER PROJECTS.

IT SHALL BE THE RESPONSIBILITY OF THE APPLICANT TO DETERMINE WHICH OF THE SPECIAL CONDITIONS APPLY TO EACH PERMIT.

THE ANOKA COUNTY TRANSPORTATION DIVISION (ACTD) RESERVES THE RIGHT TO REVOKE ANY UTILITY PERMIT AND HALT WORK, IF, UPON INSPECTION OF ANY JOB SITE, THE SPECIAL CONDITIONS ARE NOT MET, AND/OR A HAZARD EXISTS FOR THE APPLICANT OR PUBLIC SAFETY IS THREATENED. **THE FAILURE TO COMPLY WITH THE TERMS AND CONDITIONS OF ANY APPLICABLE FEDERAL, STATE, REGIONAL, AND LOCAL LAWS, RULES AND REGULATIONS, INCLUDING ANY PROVISION OF ANOKA COUNTY'S RIGHT-OF-WAY ORDINANCE SHALL BE CAUSE FOR IMMEDIATE REVOCATION OF A PERMIT.**

THE APPLICANT SHALL NOTIFY ACTD IMMEDIATELY UPON COMPLETION OF PROJECT SO THAT THE ACTD CAN INSPECT THE SITE TO DETERMINE WHETHER OR NOT RESTORATION HAS BEEN SATISFACTORILY COMPLETED.

THE UNDERSIGNED, HEREBY ACCEPTS THE TERMS AND CONDITIONS OF THIS PERMIT AND THE REGULATIONS OF ANOKA COUNTY, AND AGREES TO FULLY COMPLY THEREWITH TO THE SATISFACTION OF THE ACTD. THE COUNTY OF ANOKA, ITS OFFICIALS, EMPLOYEES, AND AGENTS, SHALL BE HELD HARMLESS, BY THE APPLICANT/PERMITTEE, FROM ANY DEMANDS, CLAIMS, LAWSUITS, OR DAMAGES RELATING TO THE WORK DESCRIBED IN THIS PERMIT.

APPLICANT'S SIGNATURE

DocuSigned by:

JACOB H. F. J. K.

DATE 4/4/2023

20D0491240AF43C...

AUTHORIZATION OF PERMIT

IN CONSIDERATION OF THE APPLICANT'S AGREEMENT TO COMPLY IN ALL RESPECTS WITH THE REGULATIONS OF THE ACTD COVERING SUCH OPERATIONS, PERMISSION IS HEREBY GRANTED FOR THE WORK TO BE DONE AS DESCRIBED IN THE ABOVE APPLICATION. SAID WORK TO BE DONE IN ACCORDANCE WITH THE GENERAL CONDITIONS LISTED ABOVE AND THE SPECIAL CONDITIONS REQUIRED AS HEREBY STATED. IT IS EXPRESSLY UNDERSTOOD THAT THIS PERMIT IS CONDITIONED UPON REPLACEMENT OR RESTORATION OF THE COUNTY HIGHWAY AND ITS RIGHT OF WAY TO THEIR ORIGINAL OR TO A SATISFACTORY CONDITION. IT IS FURTHER UNDERSTOOD THAT THIS PERMIT IS ISSUED SUBJECT TO THE APPROVAL OF LOCAL CITY OR TOWNSHIP AUTHORITIES HAVING JOINT SUPERVISION OVER SAID STREET OR HIGHWAY.

APPROVED BY:

DATE

TITLE:

THIS PERMIT COVERS THE RIGHT OF WAY IN ANOKA COUNTY ONLY
ACTD reserves the right to make changes to these special conditions.



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SPECIAL CONDITIONS

TRAFFIC CONTROL

- 1) DETOURS
 - a) DETAILED DETOUR LAYOUTS SHALL BE SUBMITTED TO THE TRAFFIC ENGINEER FOR APPROVAL.
 - b) NO DETOURS SHALL BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ANOKA COUNTY TRAFFIC ENGINEER.
 - c) TEN DAYS NOTICE MUST BE GIVEN PRIOR TO THE INSTALLATION OF ANY DETOUR.
 - d) IT SHALL BE THE RESPONSIBILITY OF THE APPLICANT TO NOTIFY ANOKA COUNTY CENTRAL COMMUNICATIONS, LOCAL GOVERNMENT BODIES, AND ANY AFFECTED BUS COMPANIES TEN DAYS PRIOR TO ANY ROAD CLOSURES/DETOURS.
 - e) IMMEDIATELY UPON COMPLETION OF WORK AND/OR DETOURS, ALL POSTS, BARRICADES, AND SIGNS SHALL BE REMOVED FROM THE RIGHT OF WAY.
- 2) TRAFFIC CONTROL DEVICES
 - a) ALL TRAFFIC CONTROL DEVICES, BARRICADES, FLASHERS, ETC., SHALL BE FURNISHED BY THE APPLICANT AND SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS – FIELD MANUAL OF THE SAME MANUAL.

CONSTRUCTION REQUIREMENTS

- 1) OPEN CUTTING OF BITUMINOUS OR CONCRETE SURFACED ROADS WILL BE ALLOWED ONLY AT THE DISCRETION OF THE COUNTY ENGINEER.
- 2) NEITHER SUPPLIES NOR EXCAVATION MATERIALS SHALL BE PLACED ON THE BITUMINOUS OR CONCRETE SURFACE AT ANY TIME.
- 3) NO TRENCHES WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT.
- 4) MATERIALS REMOVED FROM THE TRENCH SHALL BE USED AS BACKFILL INSOFAR AS THEY ARE SUITABLE. ALL BACKFILL MATERIAL SHALL CONFORM TO MNDOT SPECIFICATIONS FOR COMPACTION. THE USE OF HEAVY EQUIPMENT ON TOP OF TRENCH, SLAPPING WITH BACKHOE BUCKET AND/OR BACKCASTING TO ACHIEVE COMPACTION IS PROHIBITED. ANY ADDITIONAL MATERIAL REQUIRED TO BACK FILL TO THE ORIGINAL GRADE SHALL BE FURNISHED BY THE APPLICANT AT NO EXPENSE TO THE ACTD. ALL THE BASE AND SURFACE COURSES DAMAGED DURING CONSTRUCTION OPERATIONS SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN BEFORE OPERATIONS BEGAN. THE APPLICANT SHALL BE RESPONSIBLE FOR AND RESTORE ANY SETTLEMENT.
- 5) ALL CULVERTS, DITCHES, SHOULDERS, AND BACKSLOPES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION UNLESS OTHERWISE DIRECTED BY THE ACTD. SHOULDERS WHICH HAVE BEEN PREVIOUSLY CONSTRUCTED OR RECONSTRUCTED WITH SPECIAL MATERIALS SHALL BE REPLACED IN KIND. RESTORATION OF SIGNS, GUARDRAILS, GUARDPOSTS, ETC., ARE THE SOLE RESPONSIBILITY OF THE APPLICANT AND SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
- 6) ALL ROADWAY MAINTENANCE REQUIRED WITHIN THE LIMITS OF THE UTILITY PROJECT THAT IS RELATED TO THE APPLICANT'S ACTIVITIES SHALL BE THE SOLE RESPONSIBILITY OF THE APPLICANT FOR ONE YEAR AFTER COMPLETION OF THE PROJECT. UPON COMPLETION OF THE RESTORATION WORK, THE APPLICANT SHALL REQUEST A FINAL INSPECTION BY THE ACTD. THE ACTD'S APPROVED COMPLETION DATE SHALL BE THE STARTING DATE OF THE APPLICANT'S ONE YEAR RESPONSIBILITY.

HORIZONTAL BORING AND JACKING

- 1) ALL HARD SURFACE ROADWAYS SHALL BE JACKED OR BORED.
- 2) ALL CROSSINGS OF ANOKA COUNTY MAINTAINED ROADBEDS SHALL BE MADE BY BORING INSIDE A CASING OR CARRIER PIPE, OR BY JACKING UNLESS OTHERWISE DIRECTED BY THE ANOKA COUNTY ENGINEER. THE AUGER SHALL LEAD THE CASING OR CARRIER PIPE BY AT LEAST SIX INCHES WHENEVER POSSIBLE AND NEVER LEAD THE CARRIER PIPE BY MORE THAN ONE INCH.
- 3) THE USE OF PNEUMATIC DEVICES TO FACILITATE THE ROADBED CROSSINGS WILL BE ALLOWED IN MOST CASES WITH PRIOR APPROVAL. IN THE EVENT APPROVAL IS NOT GRANTED AND APPLICANT USES A PNEUMATIC DEVICE TO CROSS A ROADBED AND ENCOUNTERS AN OBSTRUCTION AND/OR UNSTABLE SUBBASE MATERIAL WHICH MAKES FORWARD OR REVERSE MOTION OF PNEUMATIC DEVICE IMPOSSIBLE, SAID PNEUMATIC DEVICE THEN BECOMES PART OF THE ROADWAY SUBBASE AND PERMISSION TO EXCAVATE TO RETRIEVE DEVICE WILL NOT BE GRANTED.
- 4) IF A PNEUMATIC DEVICE IS USED FOR THE WORK PERMITTED HEREIN, THE INSTALLATION MUST BE KEPT TO A MINIMUM OF FOUR FEET BELOW THE SURFACE OF THE ROADWAY IF THE PNEUMATIC DEVICE IS LESS THAN TWO INCHES IN DIAMETER, AND A MINIMUM OF FIVE FEET BELOW THE SURFACE OF THE ROADWAY IF THE PNEUMATIC DEVICE IS TWO INCHES IN DIAMETER OR LARGER.

BITUMINOUS RESTORATION

- 1) THE LOCATIONS AND DIMENSIONS OF ALL OPENINGS TO BE MADE IN THE BITUMINOUS SURFACE SHALL BE APPROVED BY THE ACTD PRIOR TO ANY CUTTING OR ANY SURFACE OPENING OPERATIONS.
- 2) ALL OPENINGS IN BITUMINOUS SURFACES SHALL BE CUT IN A STRAIGHT LINE WITH THE SIDES SMOOTH AND VERTICAL. NO RAGGED EDGES WILL BE PERMITTED. CUTTING SHALL BE DONE WITH A CONCRETE SAW.
- 3) ALL NECESSARY DUST CONTROL OPERATIONS SHALL BE CARRIED OUT BY THE APPLICANT AT NO EXPENSE TO ANOKA COUNTY.
- 4) THE MINIMUM REQUIREMENT FOR SUBGRADE REPLACEMENT SHALL BE THE UPPER TWELVE INCHES OF MATERIAL AND SHALL MEET MNDOT SPECIFICATIONS FOR CLASS FIVE PLACED IN SIX INCH LAYERS COMPACTED TO ONE HUNDRED PERCENT OF OPTIMUM DENSITY.
- 5) ALL MANHOLE CASINGS, GATE VALVES, AND OTHER UTILITY STRUCTURES SHALL BE SET ONE QUARTER INCH BELOW THE TOP OF THE FINISHED SURFACE.
- 6) BITUMINOUS TACK COAT MATERIALS AND APPLICATION THEREOF SHALL CONFORM TO MNDOT SPECIFICATION 2357.
- 7) ALL BITUMINOUS SURFACING SHALL BE REPLACED AS SOON AS PRACTICABLE AFTER THE BASE CONSTRUCTION. ALL BITUMINOUS SURFACING SHALL BE MACHINE LAID. ANY EXCEPTIONS MUST BE APPROVED BY THE ACTD. BITUMINOUS SURFACING SHALL BE REPLACED TO ORIGINAL PAVEMENT DEPTH OR TO A MINIMUM OF SIX INCHES OF BITUMINOUS MIXTURE (2360), WHICHEVER IS GREATER. BITUMINOUS MIXTURES MUST BE PLACED IN LIFTS NOT EXCEEDING THREE INCHES IN THICKNESS FOR BASE AND BINDER COURSES AND NOT EXCEEDING TWO INCHES FOR THE WEAR COURSE.
- 8) ALL SURFACE RESTORATION REGARDLESS OF SIZE SHALL CONFORM TO EXISTING GRADES.
- 9) ANY UNNECESSARY OR NEGLIGENT DAMAGE TO BITUMINOUS SURFACE IN CONJUNCTION WITH THE INSTALLATION AND/OR REPAIR OF A UTILITY SHALL BE CUT OUT AND REPLACED IN KIND AS DIRECTED BY THE ACTD.

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CONCRETE RESTORATION

- 1) CURB AND GUTTER, SIDEWALKS, AND DRIVEWAYS SHALL BE RESTORED IN ACCORDANCE WITH MNDOT SPECIFICATIONS 2531 AND 2521.

UTILITY LINES

- 1) THERE SHALL BE ONLY A SINGLE POLE LINE ON THE COUNTY RIGHT OF WAY ON EITHER SIDE OF THE CENTER LINE THEREOF.
- 2) EXACT LOCATIONS OF LONGITUDINAL INSTALLATIONS ON COUNTY HIGHWAYS SHALL BE LOCATED AS DIRECTED BY THE ACTD.

SECTION CORNER MONUMENTS

- 1) UTILITY LOCATIONS SHALL NOT INTERFERE WITH THE LOCATION OF ANY SECTION, QUARTER, WITNESS, OR RIGHT OF WAY MONUMENTS. FOR ASSISTANCE IN LOCATIONS, CONTACT THE ANOKA COUNTY SURVEYOR'S OFFICE.
- 2) THE APPLICANT SHALL BE RESPONSIBLE FOR REPLACEMENT OF ANY EXISTING PROPERTY IRONS DISTURBED DURING CONSTRUCTION.
- 3) THE APPLICANT SHALL NOTIFY THE ANOKA COUNTY SURVEYOR'S OFFICE THREE WORKING DAYS IN ADVANCE OF ANY ANTICIPATED DISTURBANCE OF ANY SECTION, QUARTER, WITNESS, OR RIGHT OF WAY MONUMENTS.
- 4) ANY MONUMENT DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE RESET BY THE ANOKA COUNTY SURVEYOR'S OFFICE AT THE EXPENSE OF THE APPLICANT.

ATTACHING TO BRIDGES/STRUCTURES

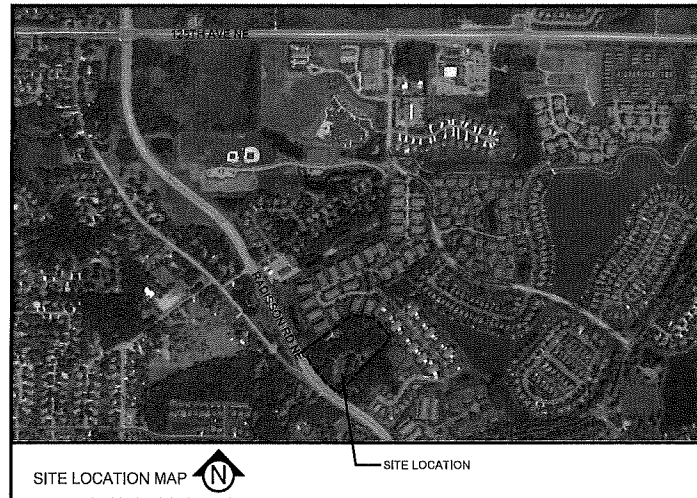
- 1) NO UTILITY IS PERMITTED TO BE HUNG FROM, OR OTHERWISE ATTACHED TO ANY BRIDGE OR STRUCTURE WITHOUT HAVING DETAILED PLANS APPROVED BY THE ANOKA COUNTY ENGINEER. THESE PLANS ARE TO SHOW APPROACHES TO THE STRUCTURE, METHOD OF INSTALLATION, TYPE, AND DIMENSION OF HOUSING FOR THE UTILITY.

INITIAL
DS

RADISSON ROAD TOWNHOMES

BLAINE, MINNESOTA

ISSUED FOR: WATERSHED SUBMITTAL



PRELIMINARY:
NOT FOR
CONSTRUCTION

PROJECT
RADISSON ROAD TOWNHOMES
11967 & 11985 RADISSON RD NE; BLAINE, MN 55449
RON CLARK CONSTRUCTION
7500 WEST 78TH STREET, EDINA, MN 55439

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

David J. Knudde
David J. Knudde
DATE 2/2/23 LICENSE NO. 48778

ISSUE/SUBMITTAL SUMMARY
DATE DESCRIPTION
1/27/23 RADISSON SUBMITTAL
1/27/23 RADISSON SUBMITTAL
1/27/23 RADISSON SUBMITTAL

DRAWN BY AM REVIEWED BY DK
PROJECT NUMBER 202321

REVISION SUMMARY
DATE DESCRIPTION

TITLE SHEET

C0.0
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ARCHITECT:
WHITTEN ASSOCIATES, INC.
4159 HEATHERTON PLACE
MINNETONKA, MN 55345
CONTACT: TIM WHITTEN
TIM@WHITTENASSOCIATES.COM
612-747-0771

DEVELOPER / PROPERTY OWNER:
RON CLARK CONSTRUCTION
7500 WEST 78TH STREET
EDINA, MN 55439
CONTACT: MIKE WALDO
MIKAWALDO@RONCLARK.COM
952-947-3037

ENGINEER / LANDSCAPE ARCHITECT:
CIVIL SITE GROUP
5500 GLENWOOD AVE
GOLDEN VALLEY, MN 55422
CONTACT: DAVID KHAEBLE
612-615-0000

SURVEYOR:
EG RUD & SONS
8778 LAKE DR
LINO LAKES, MN 55014
CONTACT: JASON E. RUD
651-361-4000

GEOTECHNICAL ENGINEER:
BRAUN INTERTEC
1100 HAMPSHIRE AVE S
MINNEAPOLIS, MN 55348
CONTACT: NATHAN L. MCKINNEY
952-995-2000

SHEET INDEX	
SHEET NUMBER	SHEET TITLE
C0.0	TITLE SHEET
V1.0	SITE SURVEY
C1.0	REMOVALS PLAN
C1.1	TREE PRESERVATION INVENTORY & CALCULATIONS
C2.0	SITE PLAN
C2.1	OVERALL SITE DEVELOPMENT
C3.0	GRADING PLAN
C4.0	UTILITY PLAN
C5.0	CIVIL DETAILS
C5.1	CIVIL DETAILS
C5.2	CIVIL DETAILS
C5.3	CIVIL DETAILS
C5.4	CIVIL DETAILS
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SW1.0	SWPPP - EXISTING CONDITIONS
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SW1.3	SWPPP - NARRATIVE
SW1.4	SWPPP - ATTACHMENTS
SW1.5	SWPPP - ATTACHMENTS



CERTIFICATE OF SURVEY

~for~ UNITED PROPERTIES
~of~ 11967 and 11985 Radisson Road NE

LEGEND

- DENOTES IRON MONUMENT FOUND AS LABELED
- DENOTES IRON MONUMENT SET, MARKED RLS# 41578
- DENOTES CATCH BASIN
- DENOTES CABLE PEDESTAL
- DENOTES ELECTRICAL BOX
- DENOTES ELECTRICAL MANHOLE
- DENOTES EXISTING SPOT ELEVATION
- DENOTES FIBER OPTIC BOX
- DENOTES GAS METER
- DENOTES HYDRANT
- DENOTES MISCELLANEOUS MANHOLE
- DENOTES STORM SEWER MANHOLE
- DENOTES SEPTIC/SANITARY SEWER MANHOLE
- DENOTES STORM SEWER APRON
- DENOTES TELEPHONE PEDESTAL
- DENOTES WATER VALVE
- DENOTES WELL
- DENOTES WET LAND
- DENOTES RETAINING WALL
- DENOTES EXISTING CONTOURS
- DENOTES EXISTING STORM SEWER
- DENOTES WETLAND DELINEATED BY ANDERSON ENGINEERING
- DENOTES EXISTING SANITARY SEWER
- DENOTES EXISTING WATER MAIN
- DENOTES UNDERGROUND ELECTRIC LINE
- DENOTES UNDERGROUND GAS LINE
- DENOTES UNDERGROUND FIBER OPTIC LINE
- DENOTES BITUMINOUS SURFACE
- DENOTES CONCRETE SURFACE
- DENOTES GRAVEL SURFACE

TREE DETAIL

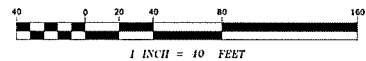
- DENOTES ELEVATION
- DENOTES TREE QUANTITY
- DENOTES TREE SIZE IN INCHES
- DENOTES TREE TYPE

NOTES

- Field survey was completed by E.G. Rud and Sons, Inc. on 7/15/2020 and 11/19/2020.
- Bearings shown are on Anoka County datum.
- Curb shots are taken at the top and back of curb.
- This survey is based upon information found in the commitment for title insurance prepared by Commercial Partners Title, LLC, File No. 57398 and 57399.
- Wetland delineation by Anderson Engineering.
- Contours shown are a compilation of field data and MNGEO lidar distribution.
- Surveyed premises shown on this survey map is in Flood Zone X (Areas determined to be outside the 0.2% annual chance floodplain), according to Flood Insurance Rate Map Community No. 27007 Panel No. 0339 Suffix E by the Federal Emergency Management Agency, effective date December 16, 2015.
- Location of utilities existing on or serving the surveyed property determined by:
 - Observed evidence collected pursuant to Section 5.E.iv.
 - Markings requested by E.G. Rud and Sons, Inc. per Gopher State One Call Ticket Nos. 203150008 and 203150009.
- Record drawings provided by the City of Blaine's engineering department.
- Excavations were not made during the process of this survey to locate underground utilities and/or structures. The location of underground utilities and/or structures may vary from locations shown herein and additional underground utilities and/or structures may be encountered. Contact Gopher State One Call Notification Center at (651) 454-0002 for verification of utility type and field location, prior to excavation.
- Trees were tagged, inventoried and identified by Jacobson Environmental.

NORTH

GRAPHIC SCALE



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

BENCHMARK:
 MNDOT GSID STATION #692
 MNDOT NAME: 8 WHY RESET
 ELEVATION: 912.25 (NAD 88)

RADISSON ROAD
 ANOKA COUNTY HIGHWAY NO. 59
 RIGHT-OF-WAY PLAT NO. 59

NO.	DATE	DESCRIPTION	BY
1	11/21/2020	TREE INVENTORY/UTILITIES	BRN
2	1/12/2021	UPDATED DELINEATED WETLAND	BRN
3	4/27/2021	UPDATED TREE INVENTORY	BRN

LEGAL DESCRIPTION

PARCEL A (11967 Radisson Road NE)
 (per commitment for title insurance prepared by Commercial Partners Title, LLC, File No. 57398)

The land is described as follows:
 Commencing at the intersection of the West line of said Southeast Quarter and the center line of County Road No. 52 as the same is now laid out and traveled, said County Road also known as Radisson Road and said point of intersection being 281.40 feet South of the Northwest corner of said Southeast Quarter; thence South 40 degrees 53 minutes East on said center line a distance of 456.26 feet; thence South 56 degrees 48 minutes East on said center line a distance of 17.02 feet; thence North 53 degrees, 38 minutes East a distance of 840.43 feet; thence South 89 degrees 48 minutes East a distance of 215.10 feet; thence South 42 degrees 48 minutes East a distance of 44.23 feet to the point of beginning of the land to be described; thence continuing South 42 degrees 48 minutes East a distance of 41.27 feet; thence South 41 degrees 40 minutes 44 seconds West a distance of 638.30 feet, more or less, to the centerline of said County Road No. 52; thence North 56 degrees 48 minutes 48 seconds West along said centerline a distance of 300 feet to intersect a line drawn South 47 degrees 11 minutes 48 seconds West from the point of beginning; thence North 47 degrees 31 minutes 05 seconds East a distance of 896.84 feet to the point of beginning, according to the United States Government Survey thereof and stakes in Anoka County, Minnesota; the West line of said Southeast Quarter is assumed to bear due South for the purpose of this description. Except Parcel B, Anoka County Right-of-Way Plat No. 59 as described in Final Certificate dated July 7, 2004, File July 13, 2004, as Document No. 1932878.
 Anoka County, Minnesota
 Abstract Property

PARCEL B (11985 Radisson Road NE)
 (per commitment for title insurance prepared by Commercial Partners Title, LLC, File No. 57399)

The part of the Southeast Quarter of Section 9, Township 31, Range 23, in Anoka County, Minnesota described as follows:
 Commencing at the intersection of the West line of said Southeast Quarter and the center line of County Road No. 52 as the same is now laid out and traveled, said County Road also known as Radisson Road and said point of intersection being 281.40 feet South of the Northwest corner of said Southeast Quarter; thence South 40 degrees, 53 minutes East on said center line a distance of 456.26 feet; thence South 56 degrees, 48 minutes East on said center line a distance of 17.02 feet to the point of beginning of land to be described; thence North 52 degrees, 38 minutes East a distance of 840.43 feet; thence South 89 degrees 48 minutes East a distance of 215.10 feet; thence South 42 degrees, 48 minutes East a distance of 44.22 feet; thence South 47 degrees, 11 minutes, 03 seconds West a distance of 896.84 feet, more or less, to the center line of said County Road No. 52; thence North 56 degrees 48 minutes 48 seconds West along said centerline a distance of 300 feet to the point of beginning. Except Parcel A and 118, Anoka County Highway Right-of-Way Plat No. 59 as described in Final Certificate dated July 7, 2004, File July 13, 2004, as Document No. 1932878.
 Anoka County, Minnesota
 Abstract Property

REVISION SUMMARY

DATE	DESCRIPTION

SITE SURVEY

V1.0

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
 JASON E. RUD

Date: 4/27/2021 License No. 41578

TREE TAG NO	CAL. INCH SIZE	SPECIES	TREE CATEGORY	REMOVED	CONDITION	TREE TAG NO	CAL. INCH SIZE	SPECIES	TREE CATEGORY	REMOVED	CONDITION	TREE TAG NO	CAL. INCH SIZE	SPECIES	TREE CATEGORY	REMOVED	CONDITION
23	20	Red oak	S	X	5	238	16	Red oak	S	X	3	705	30	Quaking aspen	C	X	5
38	11	Sugar maple	C	X	5	239	18	Red oak	S	X	5	706	15	White spruce	S	X	5
101	16	Red pine	S	X	5	240	13	Red oak	S	X	5	707	12	Green ash	S	X	5
102	11	Red oak	C	X	5	241	12	White oak	S	X	5	708	24	White oak	S	X	7
103	25	White oak	S	X	6	242	16	Red oak	S	X	5	709	15	White oak	S	X	5
104	22	White oak	S	X	5	243	17	Red oak	S	X	4	710	14	Red pine	S	X	5
105	14	White oak	S	X	5	244	12	Red oak	S	X	5	711	20	White oak	S	X	5
106	30	Red oak	H	X	3	245	14	Red oak	S	X	5	712	13	Red cedar	S	X	4
107	8	Quaking aspen	C	X	5	246	22	Red oak	S	X	5	713	16	Red pine	S	X	5
108	9	Quaking aspen	C	X	5	247	23	Red oak	S	X	5	714	17	Red pine	S	X	5
109	19	White spruce	S	X	4	248	21	Red oak	S	X	3	715	18	Red pine	S	X	5
110	15	Red oak	S	X	5	249	18	Red pine	S	X	5	716	17	Red pine	S	X	5
111	19	Red pine	S	X	5	250	18	Red pine	S	X	5	717	17	Red cedar	S	X	4
112	18	Red pine	S	X	5	251	13	Red oak	S	X	4	718	19	Red pine	S	X	5
113	28	White pine	H	X	5	252	17	Red oak	S	X	4	719	18	Red pine	S	X	5
114	16	Red cedar	S	X	4	253	18	Red pine	S	X	5	720	18	Red pine	S	X	5
115	17	Red pine	S	X	4	254	18	Red oak	S	X	4	721	19	Red pine	S	X	5
116	21	Red pine	S	X	3	255	21	Red oak	S	X	5	722	16	Red pine	S	X	5
117	16	Red pine	S	X	5	256	17	Red oak	S	X	4	723	16	Red pine	S	X	5
118	15	Scotch pine	S	X	5	257	8	Paper birch	C	X	4	724	18	Red pine	S	X	5
119	16	Red pine	S	X	5	258	8	Paper birch	C	X	5	725	20	Red pine	S	X	5
120	20	Red pine	S	X	5	259	15	Red oak	S	X	5	726	18	Red pine	S	X	5
121	20	Red pine	S	X	4	260	19	Red oak	S	X	5	727	17	Red pine	S	X	5
122	9	Quaking aspen	C	X	4	261	8	Paper birch	C	X	5	728	18	Red pine	S	X	5
123	9	Quaking aspen	C	X	4	262	13	Paper birch	S	X	5	729	21	Red pine	S	X	5
124	9	Quaking aspen	C	X	5	301	26	Red oak	S	X	5	730	15	Red pine	S	X	5
125	8	Black cherry	C	X	4	302	30	Scotch pine	H	X	3	731	16	Red pine	S	X	5
126	8	Quaking aspen	C	X	5	303	8	Red oak	C	X	5	732	16	Red pine	S	X	5
127	8	Quaking aspen	C	X	4	304	21	Blue spruce	S	X	5	733	18	Red pine	S	X	5
128	26	Scotch pine	S	X	5	305	15	Blue spruce	S	X	5	734	8	Red pine	C	X	5
129	9	Quaking aspen	C	X	4	306	9	Green ash	C	X	5	735	16	Red pine	S	X	5
130	8	Quaking aspen	C	X	4	307	22	Red pine	S	X	5	736	18	Red pine	S	X	5
131	8	Quaking aspen	C	X	4	308	18	Sugar maple	S	X	4	737	15	Red pine	S	X	5
132	8	Quaking aspen	C	X	5	309	9	Red oak	C	X	5	738	17	Red pine	S	X	4
133	8	Quaking aspen	C	X	5	310	18	Red pine	S	X	4	739	17	Red pine	S	X	5
134	8	Quaking aspen	C	X	4	311	12	Blue spruce	S	X	5	740	25	Red pine	S	X	5
135	11	Quaking aspen	C	X	5	312	25	Red pine	S	X	5	741	18	Scotch pine	S	X	4
136	10	Quaking aspen	C	X	5	313	22	Red pine	S	X	5	742	20	Red pine	S	X	5
137	8	Quaking aspen	C	X	5	314	12	Blue spruce	S	X	6	743	18	Red pine	S	X	5
138	8	Quaking aspen	C	X	4	315	25	Red pine	S	X	5	744	21	Red pine	S	X	5
139	16	Red pine	S	X	5	316	16	White oak	S	X	5	745	18	Blue spruce	S	X	5
140	16	Red pine	S	X	5	317	19	White oak	S	X	5	746	17	Red pine	S	X	5
141	8	Black cherry	E	X	4	318	24	Red pine	S	X	5	747	20	Red pine	S	X	5
142	8	Quaking aspen	C	X	5	319	20	White oak	S	X	4	748	18	Red pine	S	X	5
143	9	Quaking aspen	H	X	4	320	18	White oak	S	X	4	749	16	Scotch pine	S	X	4
144	10	Quaking aspen	C	X	5	321	19	White oak	S	X	4	750	20	Red pine	S	X	5
145	9	Quaking aspen	C	X	5	322	18	Red oak	S	X	5	751	18	Red pine	S	X	5
146	11	Quaking aspen	C	X	5	323	20	Red oak	S	X	4	752	16	Red pine	E	X	5
147	8	Quaking aspen	C	X	5	324	21	Red oak	S	X	3	753	16	Red pine	E	X	5
148	9	Quaking aspen	C	X	5	325	18	White oak	S	X	4	754	17	Red pine	E	X	5
149	9	Quaking aspen	C	X	5	326	23	Red pine	S	X	5	755	19	Red pine	E	X	5
150	9	Quaking aspen	C	X	5	327	9	Red oak	C	X	4	756	20	Red pine	E	X	5
151	11	Quaking aspen	C	X	4	328	12	Red oak	S	X	5	757	18	Red pine	S	X	5
152	9	Quaking aspen	C	X	5	329	20	Red pine	S	X	5	758	19	Red pine	S	X	5
153	11	Black cherry	C	X	4	330	27	Red oak	H	X	3	759	19	Red pine	S	X	5
154	10	Black cherry	C	X	5	331	20	Red pine	S	X	5	760	18	Red pine	S	X	5
155	8	Quaking aspen	C	X	5	332	24	Red pine	S	X	5	761	17	Red pine	S	X	4
156	10	Black cherry	C	X	5	333	22	Red pine	S	X	5	762	16	White oak	S	X	5
157	8	Quaking aspen	C	X	5	334	20	Red pine	S	X	5	763	27	White oak	H	X	5
158	9	Quaking aspen	C	X	4	335	17	White oak	S	X	4	764	16	White oak	S	X	4
159	8	Quaking aspen	C	X	4	336	20	Red oak	S	X	4	765	18	Red pine	S	X	5
160	9	Quaking aspen	C	X	4	337	17	Red oak	S	X	4	766	17	White spruce	S	X	4
161	9	Black cherry	C	X	4	338	28	Red oak	H	X	5	767	22	Red pine	S	X	5
162	8	Quaking aspen	C	X	5	340	14	White oak	S	X	5	768	10	Red oak	C	X	5
163	8	Quaking aspen	C	X	5	341	15	Sugar maple	S	X	3	769	25	Red pine	S	X	5
164	8	Quaking aspen	C	X	5	342	23	Red pine	S	X	5	770	15	Red oak	S	X	5
165	18	Quaking aspen	C	X	3	343	24	Red pine	S	X	5	771	20	Red pine	S	X	5
166	9	Box elder	C	X	5	344	10	Sugar maple	C	X	5	772	15	Scotch pine	S	X	3
167	8	Quaking aspen	C	X	5	345	25	Red pine	S	X	5	773	15	Cottonwood	E	X	5
168	8	Black cherry	C	X	4	346	20	Red oak	S	X	4	774	13	Cottonwood	E	X	5
169	8	Quaking aspen	C	X	3	347	23	Red pine	S	X	5	775	21	Red pine	S	X	5
170	8	Quaking aspen	C	X	3	348	11	Red oak	C	X	0	776	19	Red pine	S	X	5
171	20	Elm	C	X	5	349	27	Blue spruce	H	X	5	777	20	Red pine	S	X	5
172	10	Sugar maple	C	X	5	350	21	Red pine	S	X	5	778	10	Red oak	C	X	5
173	10	Quaking aspen	C	X	5	351	21	Red pine	S	X	5	779	9	Red oak	C	X	5
174	8	Apple	C	X	4	352	22	Blue spruce	S	X	6	780	21	Red oak	H	X	4
175	9	Quaking aspen	C	X	4	353	24	Red pine	S	X	5	781	18	Red pine	S	X	5
176	11	Sugar maple	C	X	5	354	21	Red pine	S	X	5	782	18	Red pine	S	X	5
177	9	Red oak	C	X	5	355	9	Quaking aspen	C	X	5	783	14	Red oak	S	X	2
178	11	Red oak	C	X	5	356	22	Red pine	S	X	5	784	31	Red oak	H	X	5
179	12	Quaking aspen	C	X	4	357	21	Balsam fir	S	X	5	785	17	Red pine	S	X	5
180	9	Quaking aspen	C	X	5	358	22	Red pine	S	X	4	786	8	Quaking aspen	C	X	5
181	8	Quaking aspen	C	X	5	359	23	Red pine	S	X	5	787	8	Quaking aspen	C	X	5
182	9	Quaking aspen	C	X	4	360	21	White spruce	S	X	5	788	8	Quaking aspen	C	X	5
183	8	Quaking aspen	C	X	3	361	21	Scotch pine	S	X	3	789	17	Red pine	S	X	5
184	16	Black cherry	S	X	3	362	19	Red pine	S	X	5	790	10	Quaking aspen	C	X	4
185	14	Green ash	S	X	3	363	22	Red pine	S	X	5	791	8	Quaking aspen	C	X	3
186	8	Quaking aspen	C	X	4	364	15	Red pine	S	X	5	792	8	Quaking aspen	C	X	4
187	8	Quaking aspen	C	X	5	365	13	Red oak	S	X	5	793	9	Quaking aspen	C	X	5
188	8	Quaking aspen	C	X	5	366	15	Red oak	S	X	5	794	16	Balsam fir	S	X	5
189	9	Quaking aspen	C	X	5	367	28	Red oak	H	X	3	795	8	Quaking aspen	C	X	5
190	8	Quaking aspen	C	X	5	368	15	Red oak	S	X	4	796	9	Quaking aspen	C	X	5
191	9	Quaking aspen	C	X	3	369	14	White oak	S	X	5	797	9	Red oak	C	X	6
192	10	Quaking aspen	C	X	5	370	19	Scotch pine	S	X	5	798	12	Quaking aspen	S	X	2
193	11	Quaking aspen	C	X	4	371	15	Red oak	S	X	5	799	9	Quaking aspen	C	X	5
194	10	Quaking aspen	C	X	5	372	19	Red oak	S	X	5	800	12	Quaking aspen	S	X	5
195	8	Quaking aspen	C	X	4	373	25	Red pine	S	X	5	801	19	Red oak	S	X	4
196	11	Quaking aspen	C	X	4	374	18	Red pine	S	X	5	802	8	White oak	C	X	5
197	9	Quaking aspen	C	X	5	375	19	Red cedar	S	X	4	803	15	Red pine	S	X	5
198	8	Quaking aspen	C	X	4	376	13	Red oak	S	X	4	804	8	Sugar maple	C	X	5
199	8	Quaking aspen	C	X	4	377	12	White oak	S	X	5	805	14	White oak	S	X	



4921 W. 26TH ST., SUITE 200
ST. LOUIS PARK, MN 55416
CA 609020000
612-615-0093

**PRELIMINARY:
NOT FOR
CONSTRUCTION**

PROJECT
RADISSON ROAD TOWNHOMES
11967 & 11985 RADISSON RD NE, BLAINE, MN 55449
RON CLARK CONSTRUCTION
7500 WEST 76TH STREET, EDINA, MN 55439

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

David J. Kraschke
David J. Kraschke
DATE 2/25/23 LICENSE NO. 49776

ISSUE/SUBMITTAL SUMMARY
DATE DESCRIPTION
11/27/22 PRELIMINARY SUBMITTAL
1/23/23 MULTIREVISION SUBMITTAL
2/23/23 FINAL SUBMITTAL

REVISION SUMMARY
DATE DESCRIPTION

REVISION SUMMARY
DATE DESCRIPTION

SITE PLAN
C2.0

- SITE LAYOUT NOTES:**
- CONTRACTOR SHALL VERIFY LOCATIONS AND LAYOUT OF ALL SITE ELEMENTS PRIOR TO BEGINNING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO LOCATIONS OF EXISTING AND PROPOSED PROPERTY LINES, EASEMENTS, SETBACKS, UTILITIES, BUILDINGS AND PAVEMENTS. CONTRACTOR IS RESPONSIBLE FOR FINAL LOCATIONS OF ALL ELEMENTS FOR THE SITE. ANY REVISIONS REQUIRED AFTER COMMENCEMENT OF CONSTRUCTION, DUE TO LOCAL OR ADJUSTMENTS SHALL BE CORRECTED AT NO ADDITIONAL COST TO OWNER. ADJUSTMENTS TO THE LAYOUT SHALL BE APPROVED BY THE ENGINEER/LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF MATERIALS. STAKE LAYOUT FOR APPROVAL.
 - THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, INCLUDING A RIGHT-OF-WAY AND STREET OPENING PERMIT.
 - THE CONTRACTOR SHALL VERIFY RECOMMENDATIONS NOTED IN THE GEO TECHNICAL REPORT PRIOR TO INSTALLATION OF SITE IMPROVEMENT MATERIALS.
 - CONTRACTOR SHALL FIELD VERIFY COORDINATES AND LOCATION DIMENSIONS OF THE BUILDING AND STAKE FOR REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION OF FOOTING MATERIALS.
 - LOCATIONS OF STRUCTURES, ROADWAY PAVEMENTS, CURBS AND GUTTERS, BOLLARDS, AND WALKS ARE APPROXIMATE AND SHALL BE STAKED IN THE FIELD, PRIOR TO INSTALLATION, FOR REVIEW AND APPROVAL BY THE ENGINEER/LANDSCAPE ARCHITECT.
 - CURB DIMENSIONS SHOWN ARE TO FACE OF CURB. BUILDING DIMENSIONS ARE TO FACE OF CONCRETE FOUNDATION. LOCATION OF BUILDING IS TO BUILDING FOUNDATION AND SHALL BE AS SHOWN ON THE DRAWINGS.
 - THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR SAMPLES AS SPECIFIED FOR REVIEW AND APPROVAL BY THE ENGINEER/LANDSCAPE ARCHITECT PRIOR TO FABRICATION FOR ALL PREFABRICATED SITE IMPROVEMENT MATERIALS SUCH AS, BUT NOT LIMITED TO THE FOLLOWING: FURNISHINGS, PAVEMENTS, WALLS, RAILINGS, BENCHES, FLAGPOLES, LANDING PAIS FOR CURB RAMPS, AND LIGHT AND POLES. THE OWNER RESERVES THE RIGHT TO REJECT INSTALLED MATERIALS NOT PREVIOUSLY APPROVED.
 - PEDESTRIAN CURB RAMPS SHALL BE CONSTRUCTED WITH TRUNCATED DOME LANDING AREAS BY ACCORDANCE WITH ADA REQUIREMENTS-SEE DETAIL.
 - CROSSWALK STRIPING SHALL BE 24" WIDE WHITE PAINTED LINE, SPACED 48" ON CENTER PERPENDICULAR TO THE FLOW OF TRAFFIC. WIDTH OF CROSSWALK SHALL BE 8' WIDE. ALL OTHER PAVEMENT MARKINGS SHALL BE WHITE IN COLOR UNLESS OTHERWISE NOTED OR REQUIRED BY ADA OR LOCAL GOVERNING BODIES.
 - SEE SITE PLAN FOR CURB AND GUTTER TYPE, TAPER BETWEEN CURB TYPES-SEE DETAIL.
 - ALL CURB RADI ARE MINIMUM 2' UNLESS OTHERWISE NOTED.
 - CONTRACTOR SHALL REFER TO FINAL PLAT FOR LOT BOUNDARIES, NUMBERS, AREAS AND DIMENSIONS PRIOR TO SITE IMPROVEMENTS.
 - FIELD VERIFY ALL EXISTING SITE CONDITIONS, DIMENSIONS.
 - PARKING IS TO BE SET PARALLEL OR PERPENDICULAR TO EXISTING BUILDING UNLESS NOTED OTHERWISE.
 - ALL PARKING LOT PAINT STRIPING TO BE WHITE, 4" WIDE TYP.
 - BITUMINOUS PAVING TO BE "LIGHT DUTY" UNLESS OTHERWISE NOTED. SEE DETAIL SHEETS FOR PAVEMENT SECTIONS.
 - ALL TREES THAT ARE TO REMAIN ARE TO BE PROTECTED FROM DAMAGE WITH A CONSTRUCTION FENCE AT THE DRIP LINE. SEE LANDSCAPE DOCUMENTS.
 - ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTACT "GOPHER STATE ONE CALL" (651-454-0002 OR 650-252-1196) FOR UTILITY LOCATIONS, 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY UTILITIES THAT ARE DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

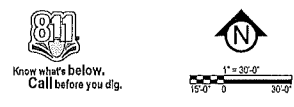
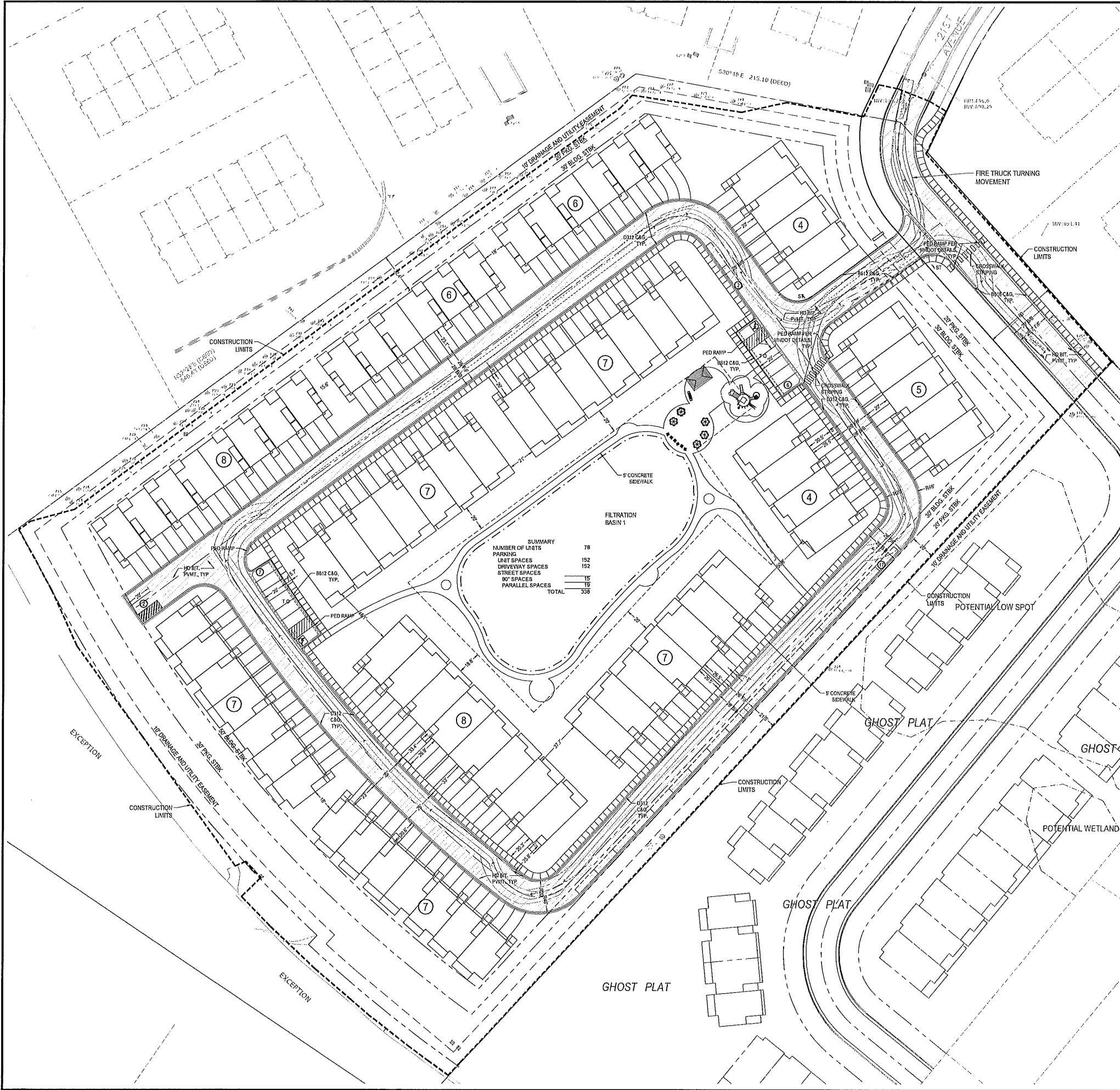
- CITY OF BLAINE SITE SPECIFIC NOTES:**
- RESERVED FOR CITY SPECIFIC NOTES.

- OPERATIONAL NOTES:**
- SNOW REMOVAL:**
ALL SNOW SHALL BE PLOWED TO LANDSCAPE OR REMOVED OFFSITE.
- TRASH REMOVAL:**
TRASH REMOVAL SHALL OCCUR IN GARAGE.
- DELIVERIES:**
DELIVERIES SHALL OCCUR AT FRONT DOOR.

- SITE PLAN LEGEND:**
- LIGHT DUTY BITUMINOUS PAVEMENT (IF APPLICABLE). SEE GEOTECHNICAL REPORT FOR AGGREGATE BASE & WEAR COURSE DEPTH, SEE DETAIL.
 - HEAVY DUTY BITUMINOUS PAVEMENT (IF APPLICABLE). SEE GEOTECHNICAL REPORT FOR AGGREGATE BASE & WEAR COURSE DEPTH, SEE DETAIL.
 - CONCRETE PAVEMENT (IF APPLICABLE) AS SPECIFIED (PAD OR WALK) SEE GEOTECHNICAL REPORT FOR AGGREGATE BASE & CONCRETE DEPTHS, SEE DETAIL.
 - PROPERTY LINE
 - CONSTRUCTION LIMITS
 - CURB AND GUTTER-SEE NOTES (T.O.) TYP OUT GUTTER WHERE APPLICABLE-SEE PLAN
 - TRAFFIC DIRECTIONAL ARROW PAVEMENT MARKINGS
 - SIGN AND POST ASSEMBLY, SHOP DRAWINGS REQUIRED.
HC = ACCESSIBLE SIGN
NP = NO PARKING FIRE LANE
ST = STOP
CP = COMPACT CAR PARKING ONLY
ACCESSIBILITY ARROW (IF APPLICABLE) DO NOT PAINT.

SITE AREA TABLE:

SITE AREA CALCULATIONS	EXISTING CONDITION	PROPOSED CONDITION
BUILDING COVERAGE	6,261 SF 1.7%	89,961 SF 24.6%
ALL PAVEMENTS (SITE)	9,552 SF 2.6%	104,571 SF 28.5%
ALL PAVEMENTS (ROW)	0 SF 0.0%	8,415 SF 2.3%
ALL NON-PAVEMENTS	350,557 SF 95.7%	163,423 SF 44.6%
TOTAL SITE AREA	366,370 SF 100.0%	366,370 SF 100.0%
IMPERVIOUS SURFACE		
EXISTING CONDITION	15,813 SF 4.3%	
PROPOSED CONDITION	202,947 SF 55.4%	
DIFFERENCE (EX. VS PROP.)	187,134 SF 51.1%	



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

1" = 30'-0"
0 30'-0"

PRELIMINARY:
NOT FOR
CONSTRUCTION

PROJECT
RADISSON ROAD TOWNHOMES
11667 & 11985 RADISSON RD NE, BLAINE, MN 55448
RON CLARK CONSTRUCTION
7300 WEST 76TH STREET, EDINA, MN 55439

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Paul J. Knudsen
Paul J. Knudsen
DATE 2/5/23 LICENSE NO. 48778

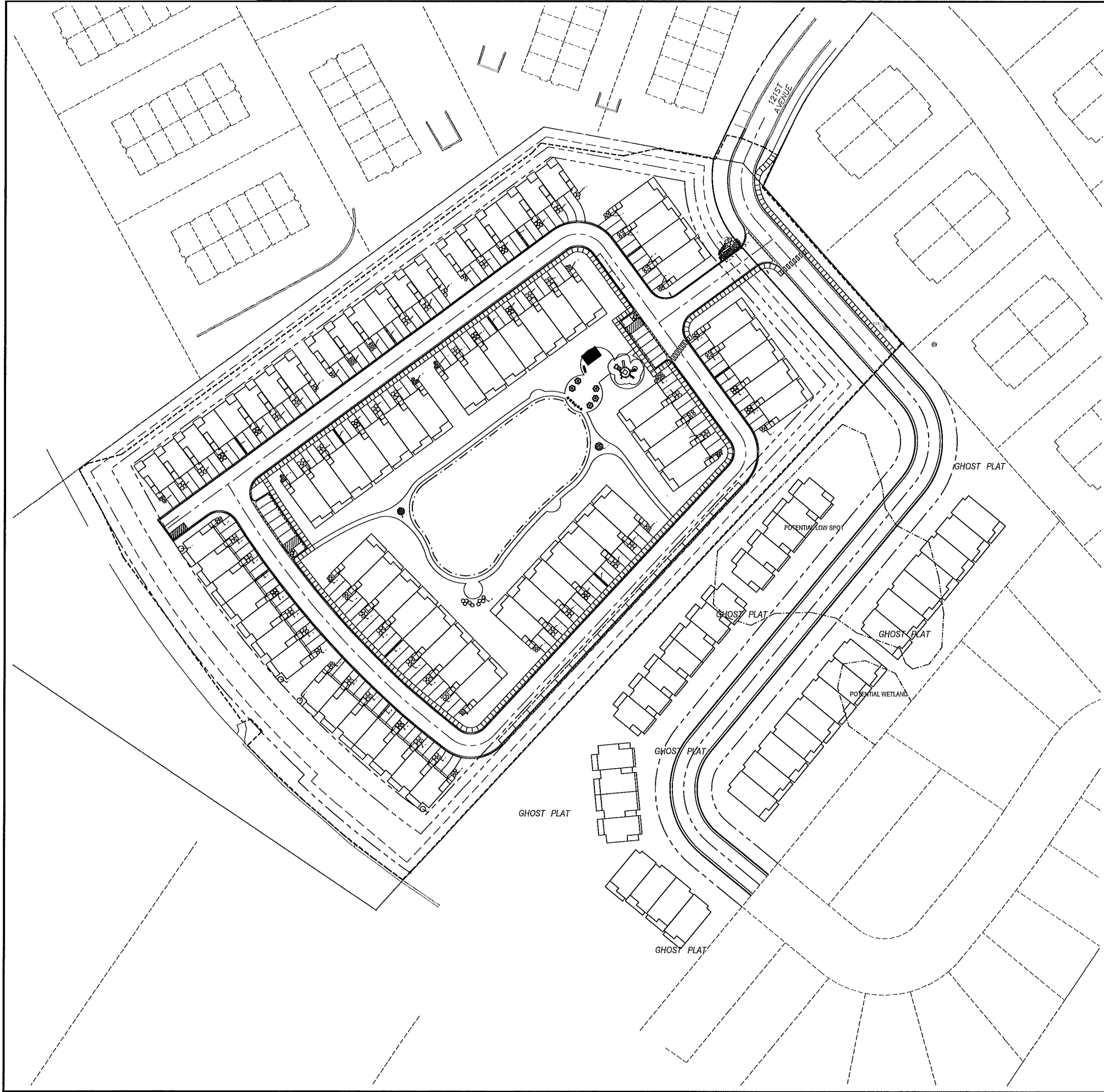
ISSUE/SUBMITTAL SUMMARY
DATE DESCRIPTION
1/15/23 APPROVED SUBMITTAL
1/15/23 APPROVED SUBMITTAL
1/15/23 APPROVED SUBMITTAL

DRAWN BY: [] REVIEWED BY: DR.
PROJECT NUMBER: 202301

REVISION SUMMARY
DATE DESCRIPTION

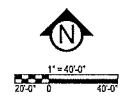
OVERALL SITE DEVELOPMENT

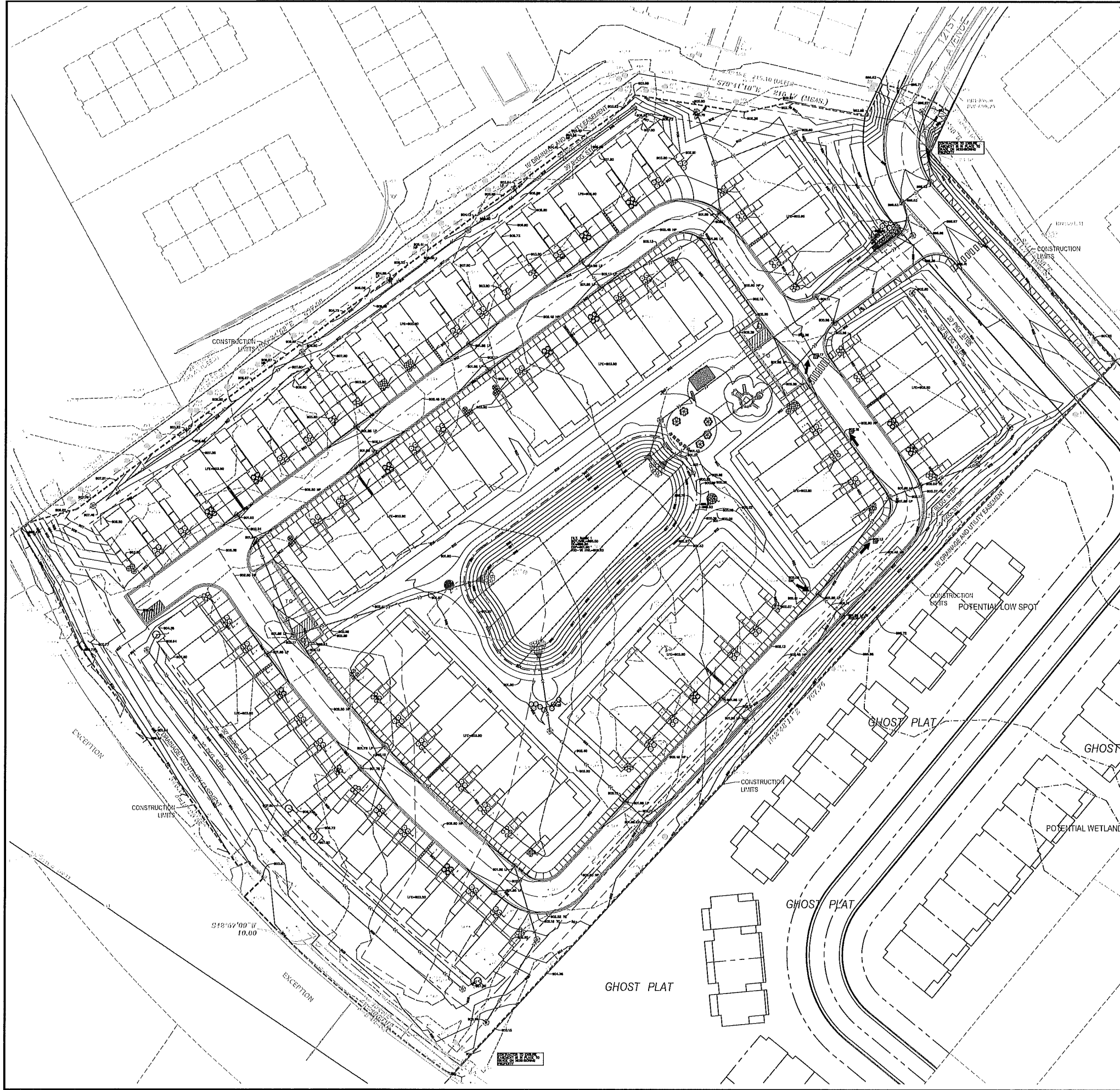
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GHOST PLAT:
ZONED MEDIUM DENSITY / MULTIFAMILY
6-10 UNITS PER ACRE

PARCEL AREA: 4.32
PROPOSED UNITS: 21
UNITS PER ACRE: 4.89





GENERAL GRADING NOTES:

- SEE SITE PLAN FOR HORIZONTAL LAYOUT & GENERAL GRADING NOTES.
- THE CONTRACTOR SHALL COMPLETE THE SITE GRADING CONSTRUCTION (INCLUDING BUT NOT LIMITED TO SITE PREPARATION, SOIL CORRECTION, EXCAVATION, EMBANKMENT, ETC.) IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER'S SOILS ENGINEER. ALL SOIL TESTING SHALL BE COMPLETED BY THE OWNER'S SOILS ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED SOIL TESTS AND INSPECTIONS WITH THE SOILS ENGINEER.
- GRADING AND EXCAVATION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS & PERMIT REQUIREMENTS OF THE CITY. ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTACT "GHOSTER STATE ONE CALL" (855-454-6002 OR 800-252-1166) FOR UTILITY LOCATIONS, 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY UTILITIES THAT ARE DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.
- PROPOSED SPOT GRADES ARE FLOW-LINE FINISHED GRADE ELEVATIONS, UNLESS OTHERWISE NOTED.
- GRADES OF WALKS SHALL BE INSTALLED WITH 6% MAX. LONGITUDINAL SLOPE AND 1% MIN. AND 2% MAX. CROSS SLOPE, UNLESS OTHERWISE NOTED.
- PROPOSED SLOPES SHALL NOT EXCEED 3:1 UNLESS INDICATED OTHERWISE ON THE DRAWINGS. MAXIMUM SLOPES IN MAINTAINED AREAS IS 4:1.
- PROPOSED RETAINING WALLS, FREESTANDING WALLS, OR COMBINATION OF WALL TYPES GREATER THAN 4' IN HEIGHT SHALL BE DESIGNED AND ENGINEERED BY A REGISTERED RETAINING WALL ENGINEER. DESIGN DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF GRADE STAKES THROUGHOUT THE DURATION OF CONSTRUCTION TO ESTABLISH PROPER GRADES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR A FINAL FIELD CHECK OF FINISHED GRADES ACCEPTABLE TO THE ENGINEER/LANDSCAPE ARCHITECT PRIOR TO TOPSOIL AND SOODING ACTIVITIES.
- IF EXCESS OR SHORTAGE OF SOIL MATERIAL EXISTS, THE CONTRACTOR SHALL TRANSPORT ALL EXCESS SOIL MATERIAL OFF THE SITE TO AN AREA SELECTED BY THE CONTRACTOR, OR IMPORT SUITABLE MATERIAL TO THE SITE.
- EXCAVATE TOPSOIL FROM AREAS TO BE FURTHER EXCAVATED OR REGRADED AND STOCKPILE IN AREAS DESIGNATED ON THE SITE. THE CONTRACTOR SHALL SALVAGE ENOUGH TOPSOIL FOR RESPREADING ON THE SITE AS SPECIFIED. EXCESS TOPSOIL SHALL BE PLACED IN EMBANKMENT AREAS, OUTSIDE OF BUILDING PADS, ROADWAYS AND PARKING AREAS. THE CONTRACTOR SHALL SUBCUT CUT AREAS, WHERE TURF IS TO BE ESTABLISHED, TO A DEPTH OF 8 INCHES. RESPREAD TOPSOIL IN AREAS WHERE TURF IS TO BE ESTABLISHED TO A MINIMUM DEPTH OF 8 INCHES.
- FINISHED GRADING SHALL BE COMPLETED. THE CONTRACTOR SHALL UNIFORMLY GRADE AREAS WITHIN LIMITS OF GRADING, INCLUDING ADJACENT TRANSITION AREAS, PROVIDE A SMOOTH FINISHED SURFACE WITHIN SPECIFIED TOLERANCES, WITH UNIFORM LEVELS OR SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE SHOWN, OR BETWEEN SUCH POINTS AND EXISTING GRADES. AREAS THAT HAVE BEEN FINISH GRADED SHALL BE PROTECTED FROM SUBSEQUENT CONSTRUCTION OPERATIONS, TRAFFIC AND EROSION. REPAIR ALL AREAS THAT HAVE BECOME RUTTED BY TRAFFIC OR ERODED BY WATER OR HAS SETTLED BELOW THE CORRECT GRADE. ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO EQUAL OR BETTER THAN ORIGINAL CONDITION OR TO THE REQUIREMENTS OF THE NEW WORK.
- PRIOR TO PLACEMENT OF THE AGGREGATE BASE, A TEST ROLL WILL BE REQUIRED ON THE STREET AND/OR PARKING AREA SUBGRADE. THE CONTRACTOR SHALL PROVIDE A LOADED TANDEM AXLE TRUCK WITH A GROSS WEIGHT OF 25 TONS. THE TEST ROLLING SHALL BE AT THE DIRECTION OF THE SOILS ENGINEER AND SHALL BE COMPLETED IN AREAS AS DIRECTED BY THE SOILS ENGINEER. THE SOILS ENGINEER SHALL DETERMINE WHICH SECTIONS OF THE STREET OR PARKING AREA ARE UNSTABLE. CORRECTION OF THE SUBGRADE SOILS SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SOILS ENGINEER. NO TEST ROLL SHALL OCCUR WITHIN 10' OF ANY UNDERGROUND STORM RETENTION DETENTION SYSTEMS.
- TOLERANCES
 - THE BUILDING SUBGRADE FINISHED SURFACE ELEVATION SHALL NOT VARY BY MORE THAN 0.30 FOOT ABOVE, OR 0.30 FOOT BELOW, THE PRESCRIBED ELEVATION AT ANY POINT WHERE MEASUREMENT IS MADE.
 - THE STREET OR PARKING AREA SUBGRADE FINISHED SURFACE ELEVATION SHALL NOT VARY BY MORE THAN 0.05 FOOT ABOVE, OR 0.10 FOOT BELOW, THE PRESCRIBED ELEVATION OF ANY POINT WHERE MEASUREMENT IS MADE.
 - AREAS WHICH ARE TO RECEIVE TOPSOIL SHALL BE GRADED TO WITHIN 0.30 FOOT ABOVE OR BELOW THE REQUIRED ELEVATION, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
 - TOPSOIL SHALL BE GRADED TO PLUS OR MINUS 1/2 INCH OF THE SPECIFIED THICKNESS.
- MAINTENANCE
 - THE CONTRACTOR SHALL PROTECT NEWLY GRADED AREAS FROM TRAFFIC AND EROSION, AND KEEP AREA FREE OF TRASH AND DEBRIS.
 - CONTRACTOR SHALL REPAIR AND REESTABLISH GRADES IN SETTLED, ERODED AND RUTTED AREAS TO SPECIFIED TOLERANCES DURING THE CONSTRUCTION, IF REQUIRED, AND DURING THE WARRANTY PERIOD. ERODED AREAS WHERE TURF IS TO BE ESTABLISHED SHALL BE RESEEDED AND MULCHED.
 - WHERE COMPLETED COMPACTED AREAS ARE DISTURBED BY SUBSEQUENT CONSTRUCTION OPERATIONS OR ADVERSE WEATHER, CONTRACTOR SHALL SCARIFY, SURFACE, RESHAPE, AND COMPACT TO REQUIRED DENSITY PRIOR TO FURTHER CONSTRUCTION.

CITY OF BLAINE GRADING NOTES:

- RESERVED FOR CITY SPECIFIC GRADING NOTES.

COON CREEK WATERSHED DISTRICT GRADING NOTES:

- DECOMPACT ALL PREVIOUS AREAS.

EROSION CONTROL NOTES:

SEE SWPPP ON SHEETS SW1.0 - SW1.5

GROUNDWATER INFORMATION:

PER GEOTECHNICAL REPORT BY BRAUN INTERTEC, DATED 12-09-20 GROUNDWATER WAS OBSERVED AT ELEVATIONS RANGING FROM 887.89 TO 892.00

THE BORINGS & GROUNDWATER ARE AS FOLLOWS:

ST-1	892.00	ST-6	890.40	ST-10	889.00
ST-2	890.00	ST-7	888.10	ST-12	888.40
ST-4	888.50	ST-8	888.70	ST-14	891.00
ST-5	890.00	ST-9	888.50	ST-15	887.80
				ST-16	888.20

GRADING PLAN LEGEND:

- 1125 --- EX. 1' CONTOUR ELEVATION INTERVAL
- 1137 --- 1/2' CONTOUR ELEVATION INTERVAL
- 41.28 --- SPOT GRADE ELEVATION (GUTTER/FLOW LINE UNLESS OTHERWISE NOTED)
- 891.00 G --- SPOT GRADE ELEVATION GUTTER
- 891.00 TO --- SPOT GRADE ELEVATION TOP OF CURB
- 891.00 BS/TS --- SPOT GRADE ELEVATION BOTTOM OF STARSTOP OF STAIRS
- 891.00 ME --- SPOT GRADE ELEVATION MATCH EXISTING
- GRADE BREAK - HIGH POINTS
- CURB AND GUTTER (1.0 = TIP OUT)
- EOE=1135.52 --- EMERGENCY OVERFLOW

4931 W. 35TH ST., SUITE 200
ST. LOUIS PARK, MN 55416
CIVILSITE@GMAIL.COM
612-415-6000

**PRELIMINARY:
NOT FOR
CONSTRUCTION**

PROJECT

RADISSON ROAD TOWNHOMES
11967 & 11985 RADISSON RD NE, BLAINE, MN 55449

CONTRACTOR
RON CLARK CONSTRUCTION
7530 WEST 76TH STREET, EDINA, MN 55439

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Peter J. Kowalski
Peter J. Kowalski
DATE: 2/23/23 LICENSE NO. 48778

ISSUE/SUBMITTAL SUMMARY

DATE	DESCRIPTION
01/23/2023	ISSUED FOR PERMITS
02/23/2023	ISSUED FOR PERMITS
03/01/2023	ISSUED FOR PERMITS

REVISION SUMMARY

DATE	DESCRIPTION

GRADING PLAN

C3.0

Know what's below.
Call before you dig.

1" = 30'-0"
15' 0" 0 30'-0"









GENERAL UTILITY NOTES:


- SEE SITE PLAN FOR HORIZONTAL DIMENSIONS AND LAYOUT.
- CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF DISCREPANCIES OR VARIATIONS FROM THE PLANS.
- ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTACT "Gopher State One Call" (85-454-002 OR 800-252-1166) FOR UTILITY LOCATIONS, 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY UTILITIES THAT ARE DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.
- UTILITY INSTALLATION SHALL CONFORM TO THE CURRENT EDITION OF "STANDARD SPECIFICATIONS FOR WATER MAIN AND SERVICE LINE INSTALLATION" AND "SANITARY SEWER AND STORM SEWER INSTALLATION" AS PREPARED BY THE CITY ENGINEERS ASSOCIATION OF MINNESOTA (CSAM) AND SHALL CONFORM WITH THE REQUIREMENTS OF THE CITY AND THE PROJECT SPECIFICATIONS.
- CASTINGS SHALL BE SALVAGED FROM STRUCTURE REMOVALS AND RE-USED OR PLACED AT THE DIRECTION OF THE OWNER.
- ALL WATER PIPE SHALL BE CLASS 52 DUCTILE IRON PIPE (DIP) AWWA C151, ASME B16.4, AWWA C110, AWWA C153 UNLESS OTHERWISE NOTED.
- ALL SANITARY SEWER SHALL BE SDR 26 POLYVINYL CHLORIDE (PVC) ASTM D3034 & 8" OR SCH 40 ASTM D15.265, ASTM F798 (150) UNLESS OTHERWISE NOTED.
- ALL STORM SEWER PIPE SHALL BE HDPE ASTM F714 & F2306 WITH ASTM D3212 SPEC FITTINGS UNLESS OTHERWISE NOTED.
- PIPE LENGTHS SHOWN ARE FROM CENTER TO CENTER OF STRUCTURE OR TO END OF FLARED END SECTION.
- UTILITIES ON THE PLAN ARE SHOWN TO WITHIN 5' OF THE BUILDING FOOTPRINT. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR THE FINAL CONNECTION TO BUILDING LINES, COORDINATE ARCHITECTURAL AND MECHANICAL PLANS.
- CATCH BASINS AND MANHOLES IN PAVED AREAS SHALL BE SUMPED 0.6 FEET. ALL CATCH BASINS IN GUTTERS SHALL BE SUMPED 0.15 FEET PER DETAILS. RIM ELEVATIONS SHOWN ON THIS PLAN DO NOT REFLECT SURVEY ELEVATIONS.
- ALL FIRE HYDRANTS SHALL BE LOCATED 5 FEET BEHIND BACK OF CURB UNLESS OTHERWISE NOTED.
- HYDRANT TYPE, VALVE, AND CONNECTION SHALL BE IN ACCORDANCE WITH CITY REQUIREMENTS. HYDRANT EXTENSIONS ARE INDICATED.
- A MINIMUM OF 8 FEET OF COVER IS REQUIRED OVER ALL WATER MAIN, UNLESS OTHERWISE NOTED. EXTRA DEPTH MAY BE REQUIRED TO MAINTAIN A MINIMUM OF 18" VERTICAL SEPARATION TO SANITARY OR STORM SEWER LINES. EXTRA DEPTH WATERMAIN IS INCIDENTAL.
- A MINIMUM OF 18 INCHES OF VERTICAL SEPARATION AND 10 FEET OF HORIZONTAL SEPARATION IS REQUIRED FOR ALL UTILITIES, UNLESS OTHERWISE NOTED.
- ALL CONNECTIONS TO EXISTING UTILITIES SHALL BE IN ACCORDANCE WITH CITY STANDARDS AND COORDINATED WITH THE CITY PRIOR TO CONSTRUCTION.
- CONNECTIONS TO EXISTING STRUCTURES SHALL BE CORE-DRILLED.
- COORDINATE LOCATIONS AND SIZES OF SERVICE CONNECTIONS WITH THE MECHANICAL DRAWINGS.
- COORDINATE INSTALLATION AND SCHEDULING OF THE INSTALLATION OF UTILITIES WITH ADJACENT CONTRACTORS AND CITY STAFF.
- ALL STREET REPAIRS AND PATCHING SHALL BE PERFORMED PER THE REQUIREMENTS OF THE CITY. ALL PAVEMENT CONNECTIONS SHALL BE SAWCUT. ALL TRAFFIC CONTROL SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL BE ESTABLISHED PER THE REQUIREMENTS OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE CITY. THIS SHALL INCLUDE BUT NOT BE LIMITED TO SIGNAGE, BARRIERS, FLASHERS, AND FLAGGERS AS NEEDED. ALL PUBLIC STREETS SHALL BE OPEN TO TRAFFIC AT ALL TIMES. NO ROAD CLOSURES SHALL BE PERMITTED WITHOUT APPROVAL BY THE CITY.
- ALL STRUCTURES, PUBLIC AND PRIVATE, SHALL BE ADJUSTED TO PROPOSED GRADES WHERE REQUIRED. THE REQUIREMENTS OF ALL OWNERS MUST BE COMPLETED WITH STRUCTURES BEING RESET TO PAVED AREAS MUST MEET OWNERS REQUIREMENTS FOR TRAFFIC LOADING.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH PRIVATE UTILITY COMPANIES.
- CONTRACTOR SHALL COORDINATE CONNECTION OF IRRIGATION SERVICE TO UTILITIES. COORDINATE THE INSTALLATION OF IRRIGATION SLEEVES NECESSARY AS TO NOT IMPACT INSTALLATION OF UTILITIES.
- CONTRACTOR SHALL MAINTAIN AS-BUILT PLANS THROUGHOUT CONSTRUCTION AND SUBMIT THESE PLANS TO ENGINEER UPON COMPLETION OF WORK.
- ALL JOINTS AND CONNECTIONS IN STORM SEWER SYSTEM SHALL BE GASTIGHT OR WATERTIGHT. APPROVED RESILIENT RUBBER JOINTS MUST BE USED TO MAKE WATERTIGHT CONNECTIONS TO MANHOLES, CATCHBASINS, OR OTHER STRUCTURES.
- ALL PORTIONS OF THE STORM SEWER SYSTEM LOCATED WITHIN 10 FEET OF THE BUILDING OR WATER SERVICE LINE MUST BE TESTED IN ACCORDANCE WITH MN RULES, CHAPTER 4714, SECTION 1103.0.
- FOR ALL SITES LOCATED IN CLAY SOIL AREAS, DRAIN TILE MUST BE INSTALLED AT ALL LOW POINT CATCH BASINS 25' IN EACH DIRECTION. SEE PLAN AND DETAIL. INSTALL LOW POINT DRAIN TILE PER PLANS AND GEOTECHNICAL REPORT RECOMMENDATIONS AND REQUIREMENTS.


CITY OF BLAINE UTILITY NOTES:


- RESERVED FOR CITY SPECIFIC UTILITY NOTES.

UTILITY LEGEND:

-  CATCH BASIN
-  MANHOLE
-  GATE VALVE AND VALVE BOX
-  PROPOSED FIRE HYDRANT
-  WATER MAIN
-  SANITARY SEWER
-  STORM SEWER
-  FES AND RIP RAP

 Know what's below. Call before you dig.

 N

 1" = 30'-0"

15'-0" 0 30'-0"

PRELIMINARY;
NOT FOR
CONSTRUCTION

RADISSON ROAD TOWNHOMES
11967 & 11985 RADISSON RD NE, BLAINE, MN 55449

RON CLARK CONSTRUCTION
7500 WEST 76TH STREET, EDINA, MN 55439

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Ron J. Knutke
Ron J. Knutke
DATE 2/23/23 LICENSE NO. 48718

ISSUE/SUBMITTAL SUMMARY
DATE DESCRIPTION
DATE DESCRIPTION
DATE DESCRIPTION

REVISION SUMMARY
DATE DESCRIPTION

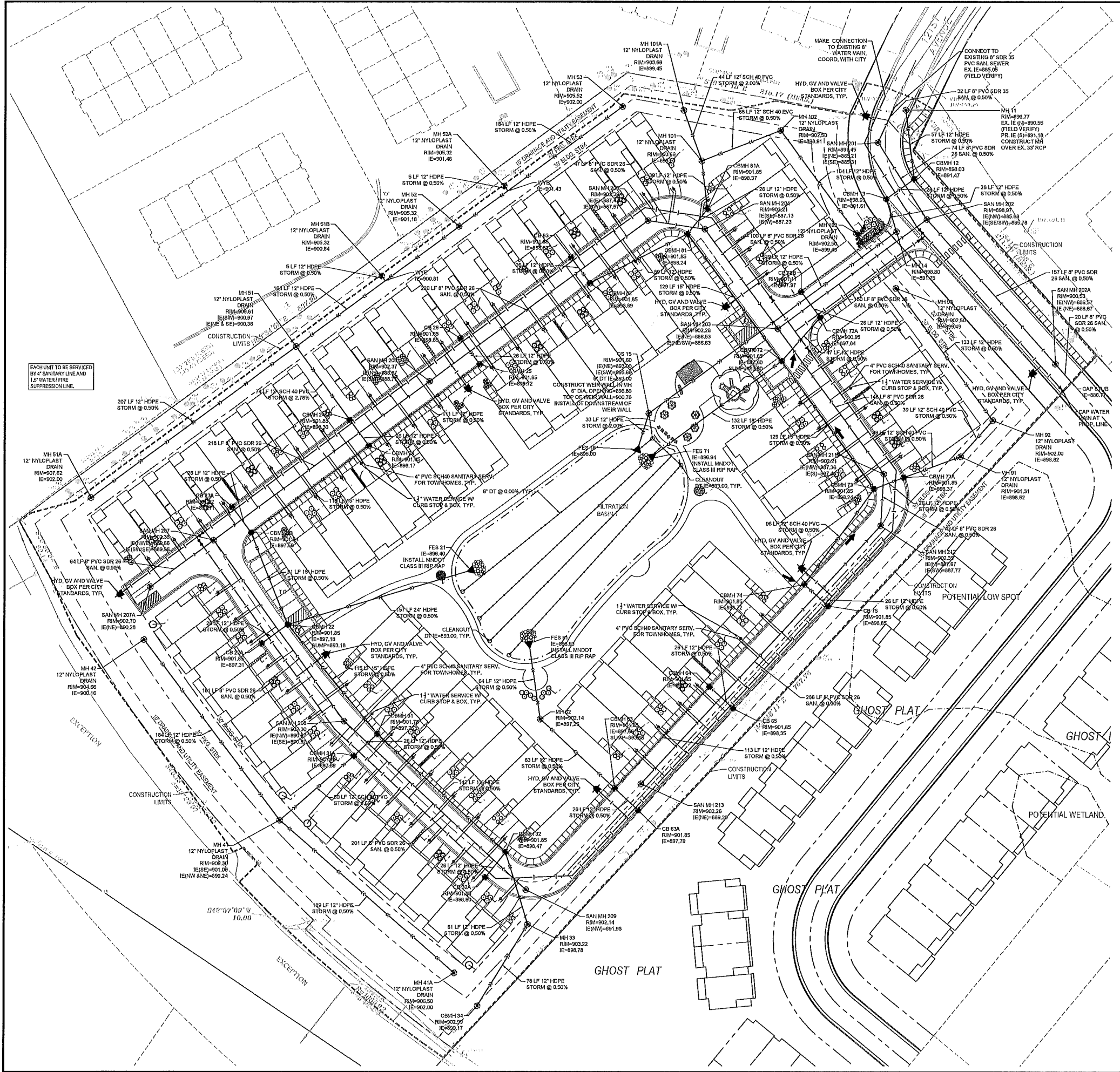
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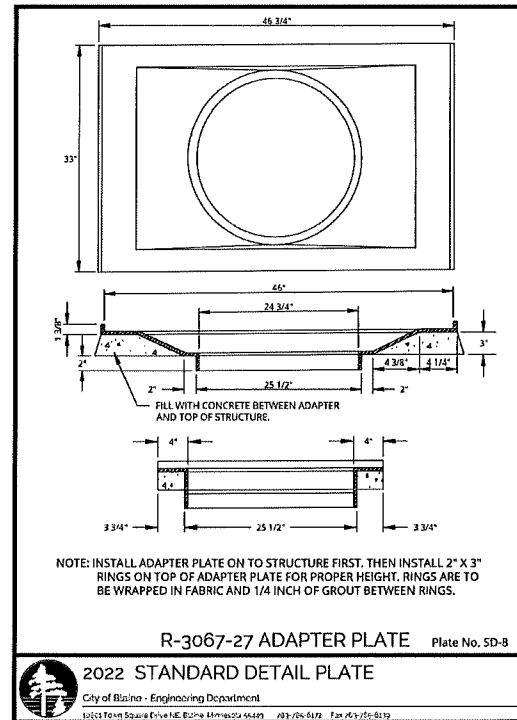
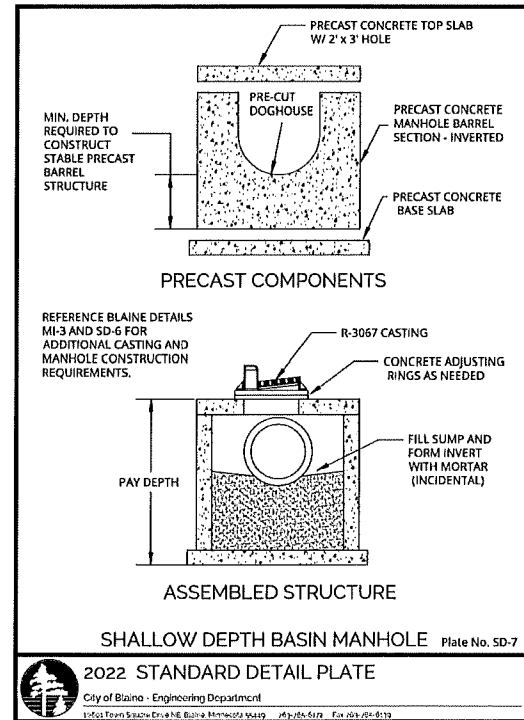
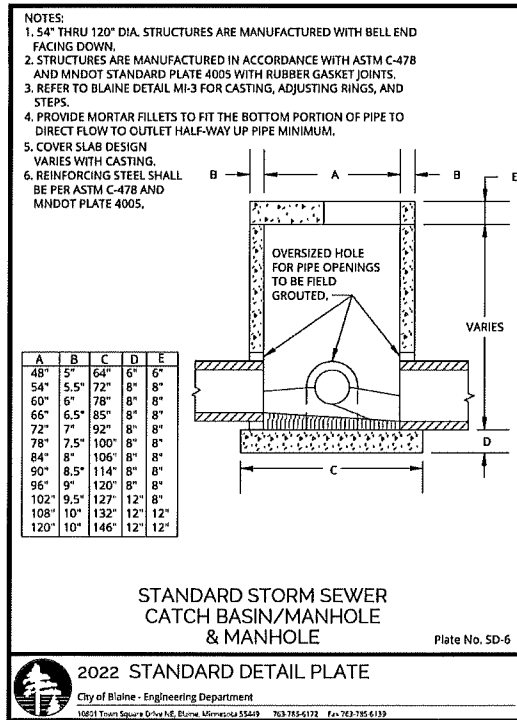
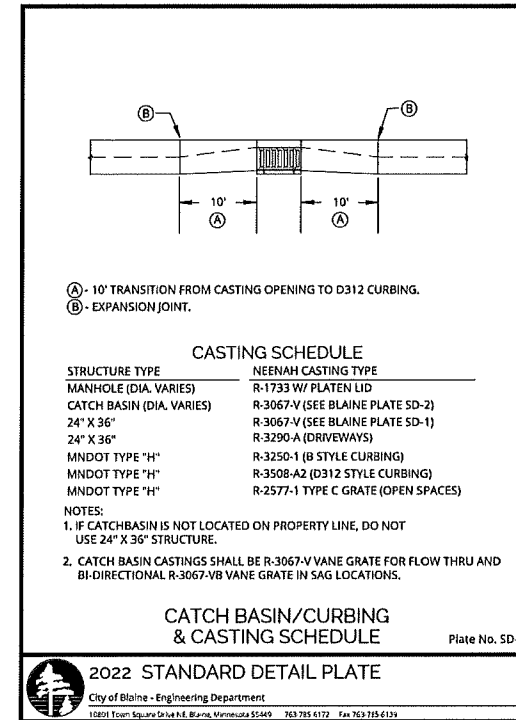
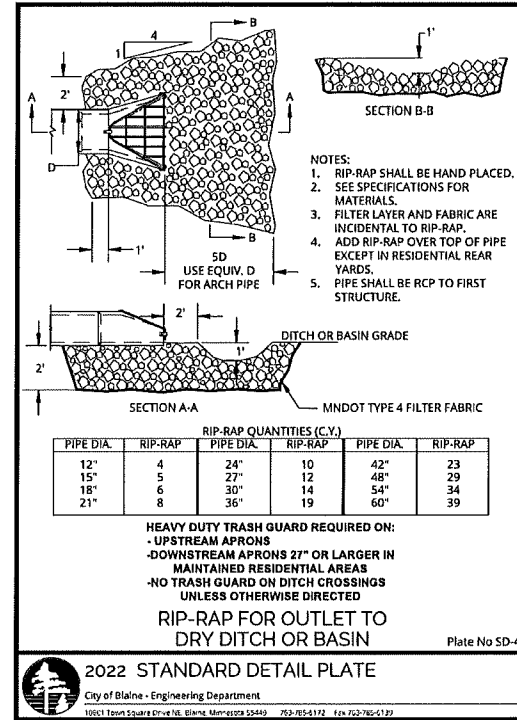
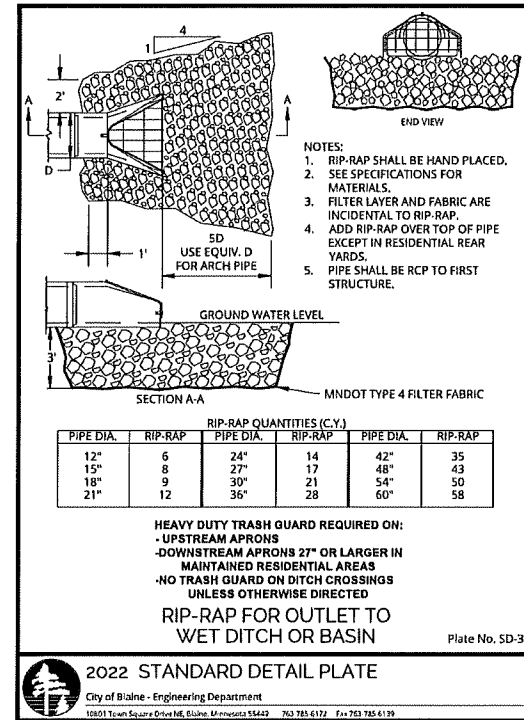
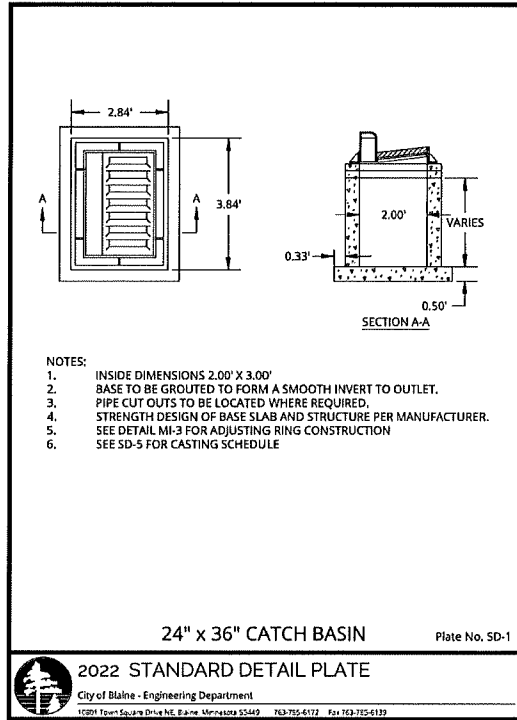
DATE DESCRIPTION

UTILITY PLAN

C4.0



EACH UNIT TO BE SERVICED BY 4" SANITARY LINE AND 1.5" WATER/FIRE SUPPRESSION LINE.



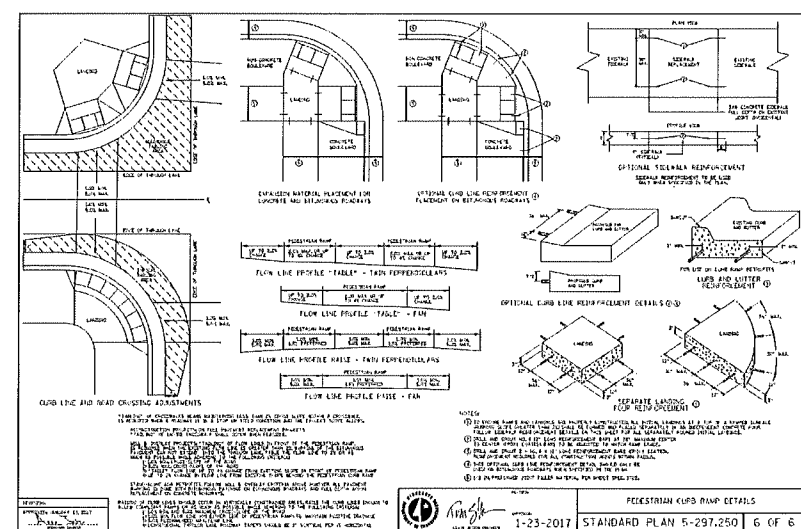
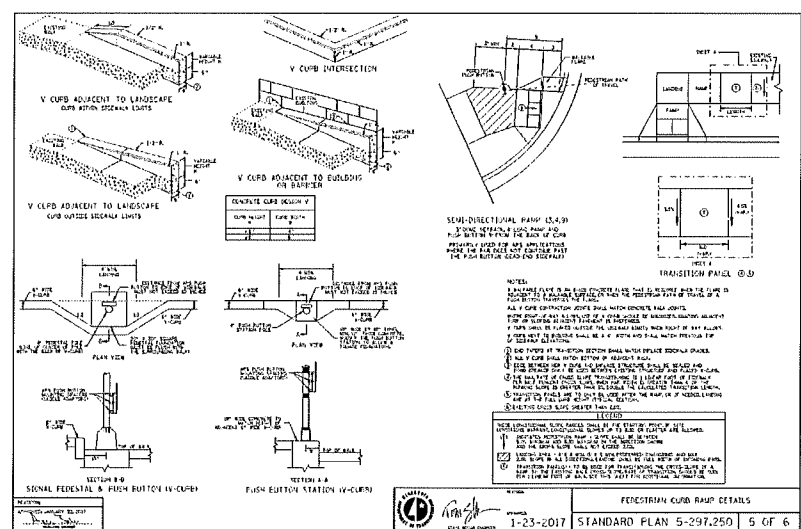
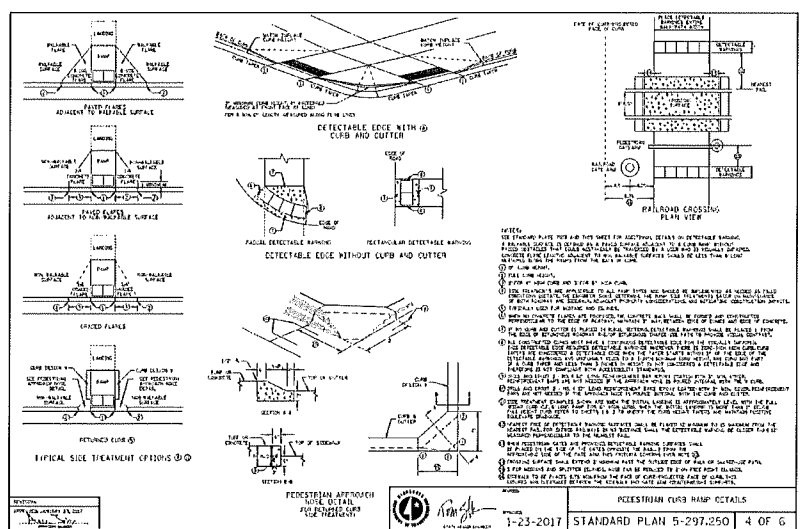
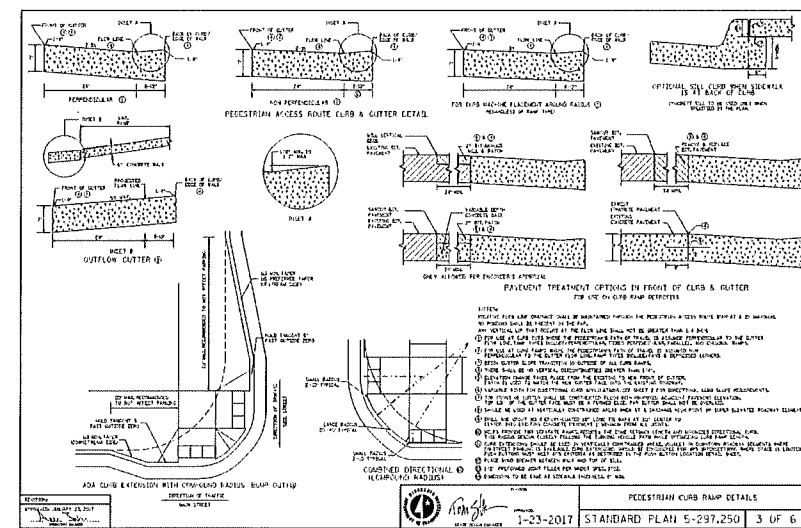
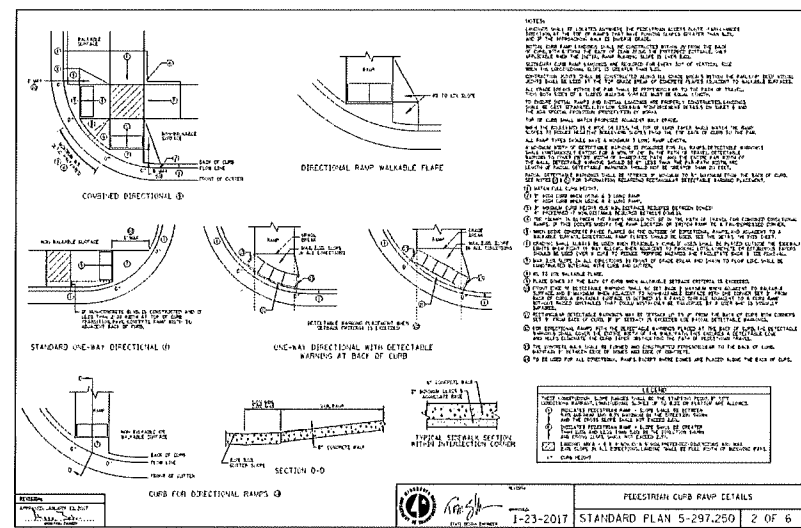
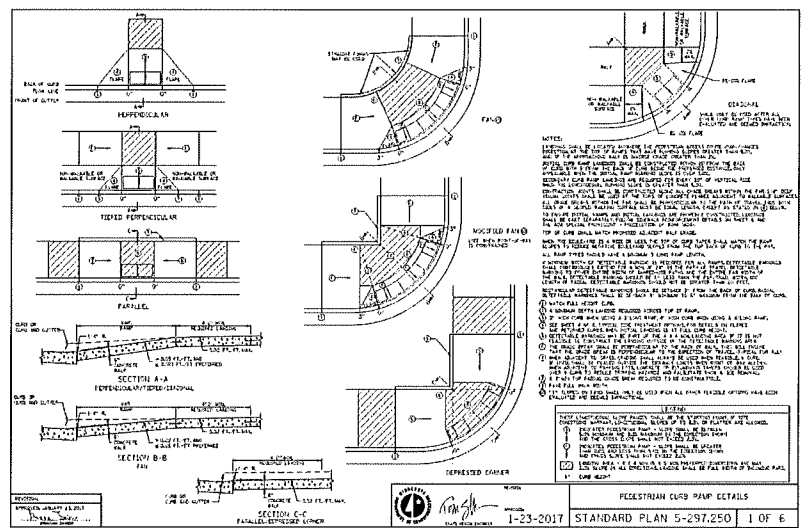
PRELIMINARY:
NOT FOR
CONSTRUCTION

PROJECT
RADISSON ROAD TOWNHOMES
11967 & 11985 RADISSON RD NE, BLAINE, MN 55449
RON CLARK CONSTRUCTION
7500 WEST 70TH STREET, EDINA, MN 55438

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Paul J. Knudsen
DATE 2/2/23 LICENSE NO. 48176

ISSUE/SUBMITTAL SUMMARY	DATE	DESCRIPTION
11871	1/11/23	ISSUE FOR PERMIT
11872	1/11/23	ISSUE FOR PERMIT
11873	1/11/23	ISSUE FOR PERMIT

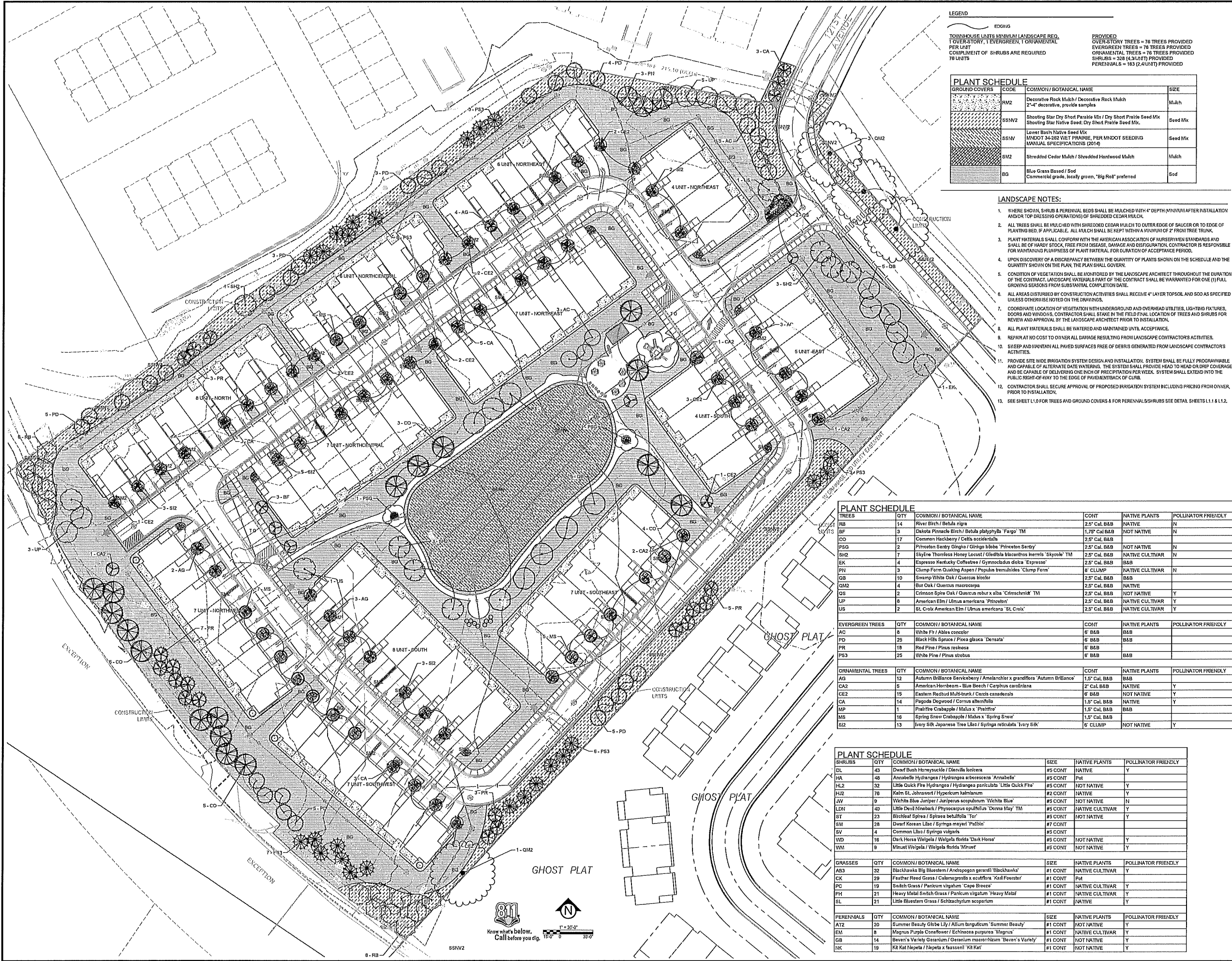


PRELIMINARY:
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CONSTRUCTION

RADISSON ROAD TOWNHOMES
11967 & 11985 RADISSON RD NE, BLAINE, MN 55449
RON CLARK CONSTRUCTION
7800 WEST 70TH STREET, EDINA, MN 55439

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Paul J. Knobel
Paul J. Knobel
DATE: 2/29/23 LICENSE NO. 48778

ISSUE/SUBMITTAL SUMMARY	DATE/DESCRIPTION
11972 RADISSON RD	
11973 RADISSON RD	
11974 RADISSON RD	
11975 RADISSON RD	
11976 RADISSON RD	
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11993 RADISSON RD	
11994 RADISSON RD	
11995 RADISSON RD	
11996 RADISSON RD	
11997 RADISSON RD	
11998 RADISSON RD	
11999 RADISSON RD	
12000 RADISSON RD	



LEGEND

EDGING

TOWNHOUSE UNITS MINIMUM LANDSCAPE REQ.
1 OVER-STORY, 1 EVERGREEN, 1 ORNAMENTAL
PER UNIT
COMPLIMENT OF SHRUBS ARE REQUIRED
78 UNITS

PROVIDED
OVER-STORY TREES = 78 TREES PROVIDED
EVERGREEN TREES = 78 TREES PROVIDED
ORNAMENTAL TREES = 78 TREES PROVIDED
SHRUBS = 328 (4.3/UNIT) PROVIDED
PERENNIALS = 163 (2.1/UNIT) PROVIDED

GROUND COVERS	CODE	COMMON / BOTANICAL NAME	SIZE
[Pattern]	RM2	Decorative Rock Mulch / Decorative Rock Mulch 2"-4" decorative, provide samples	Mulch
[Pattern]	SSINV2	Shooting Star Dry Short Prairie Mix / Dry Short Prairie Seed Mix Shooting Star Native Seed, Dry Short Prairie Seed Mix.	Seed Mix
[Pattern]	SSINV	Level Basin Native Seed Mix MNDOT 34-262 WET PRAIRIE, PER MNDOT SEEDING MANUAL SPECIFICATIONS (2014)	Seed Mix
[Pattern]	SM2	Shredded Cedar Mulch / Shredded Hardwood Mulch	Mulch
[Pattern]	BG	Blue Grass Based / Sod Commercial grade, locally grown, "Big Roll" preferred	Sod

- LANDSCAPE NOTES:**
- WHERE SHOWN, SHRUB & PERENNIAL BEDS SHALL BE MULCHED WITH 4" DEPTH (MINIMUM AFTER INSTALLATION AND/OR TOP DRESSING OPERATIONS) OF SHREDDED CEDAR MULCH.
 - ALL TREES SHALL BE MULCHED WITH SHREDDED CEDAR MULCH TO OUTER EDGE OF SAUCER OR TO EDGE OF PLANTING BED, IF APPLICABLE. ALL MULCH SHALL BE KEPT WITHIN A MINIMUM OF 2' FROM TREE TRUNK.
 - PLANT MATERIALS SHALL CONFORM WITH THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS AND SHALL BE OF HARDY STOCK, FREE FROM DISEASE, DAMAGE AND DISFIGURATION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING PLUMPNESS OF PLANT MATERIAL FOR DURATION OF ACCEPTANCE PERIOD.
 - UPON DISCOVERY OF A DISCREPANCY BETWEEN THE QUANTITY OF PLANTS SHOWN ON THE SCHEDULE AND THE QUANTITY SHOWN ON THE PLAN, THE PLAN SHALL GOVERN.
 - CONDITION OF VEGETATION SHALL BE MONITORED BY THE LANDSCAPE ARCHITECT THROUGHOUT THE DURATION OF THE CONTRACT. LANDSCAPE MATERIALS PART OF THE CONTRACT SHALL BE WARRANTED FOR ONE (1) FULL GROWING SEASONS FROM SUBSTANTIAL COMPLETION DATE.
 - ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL RECEIVE 4" LAYER TOPSOIL AND SOO AS SPECIFIED UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - COORDINATE LOCATION OF VEGETATION WITH UNDERGROUND AND OVERHEAD UTILITIES, LIGHTING FIXTURES, DOORS AND WINDOWS. CONTRACTOR SHALL STAKE IN THE FIELD FINAL LOCATION OF TREES AND SHRUBS FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
 - ALL PLANT MATERIALS SHALL BE WATERED AND MAINTAINED UNTIL ACCEPTANCE.
 - REPAIR AT NO COST TO OWNER ALL DAMAGE RESULTING FROM LANDSCAPE CONTRACTORS ACTIVITIES.
 - SWEEP AND MAINTAIN ALL PAVED SURFACES FREE OF DEBRIS GENERATED FROM LANDSCAPE CONTRACTORS ACTIVITIES.
 - PROVIDE SITE WIDE IRRIGATION SYSTEM DESIGN AND INSTALLATION. SYSTEM SHALL BE FULLY PROGRAMMABLE AND CAPABLE OF ALTERNATE DATE WATERING. THE SYSTEM SHALL PROVIDE HEAD TO HEAD OR DRIP COVERAGE AND BE CAPABLE OF DELIVERING ONE INCH OF PRECIPITATION WEEK. SYSTEM SHALL EXTEND INTO THE PUBLIC RIGHT-OF-WAY TO THE EDGE OF PAVEMENT/BACK OF CURB.
 - CONTRACTOR SHALL SECURE APPROVAL OF PROPOSED IRRIGATION SYSTEM INCLUDING PRICING FROM OWNER, PRIOR TO INSTALLATION.
 - SEE SHEET L1.0 FOR TREES AND GROUND COVERS & FOR PERENNIALS/SHRUBS SEE DETAIL SHEETS L1.1 & L1.2.

PLANT SCHEDULE

TREES	QTY	COMMON / BOTANICAL NAME	CONT	NATIVE PLANTS	POLLINATOR FRIENDLY
RB	14	River Birch / <i>Betula nigra</i>	2.5' Cal. B&B	NATIVE	N
BF	3	Dakota Pinnacle Birch / <i>Betula papyrifera</i> 'Fargo' TM	1.75' Cal. B&B	NOT NATIVE	N
DO	17	Common Hackberry / <i>Celtis occidentalis</i>	2.5' Cal. B&B		
PSG	2	Princeton Sentry Ginkgo / <i>Ginkgo biloba</i> 'Princeton Sentry'	2.5' Cal. B&B	NOT NATIVE	N
SH2	7	Skyline Thornless Honey Locust / <i>Gleditsia triacanthos</i> 'Skyline' TM	2.5' Cal. B&B	NATIVE CULTIVAR	N
EK	4	Espresso Kentucky Coffeetree / <i>Gymnocladus dioica</i> 'Espresso'	2.5' Cal. B&B	B&B	
PN	3	Clump Form Quaking Aspen / <i>Populus tremuloides</i> 'Clump Form'	6' CLUMP	NATIVE CULTIVAR	N
QB	10	Swamp White Oak / <i>Quercus bicolor</i>	2.5' Cal. B&B	B&B	
QM2	4	Bur Oak / <i>Quercus macrocarpa</i>	2.5' Cal. B&B	NATIVE	
QS	2	Crimson Spire Oak / <i>Quercus robur</i> x <i>alba</i> 'Crimson Spire' TM	2.5' Cal. B&B	NOT NATIVE	Y
UP	8	American Elm / <i>Ulmus americana</i> 'Pinnacle'	2.5' Cal. B&B	NATIVE CULTIVAR	Y
US	2	SL Creek American Elm / <i>Ulmus americana</i> 'SL Creek'	2.5' Cal. B&B	NATIVE CULTIVAR	Y

EVERGREEN TREES

QTY	COMMON / BOTANICAL NAME	CONT	NATIVE PLANTS	POLLINATOR FRIENDLY
AD	White Fir / <i>Abies concolor</i>	6' B&B	B&B	
PD	Black Hills Spruce / <i>Picea glauca</i> 'Densata'	6' B&B	B&B	
PR	Red Pine / <i>Pinus resinosa</i>	6' B&B	B&B	
PS3	White Pine / <i>Pinus strobus</i>	6' B&B	B&B	

ORNAMENTAL TREES

QTY	COMMON / BOTANICAL NAME	CONT	NATIVE PLANTS	POLLINATOR FRIENDLY
AG	Autumn Brilliance Serviceberry / <i>Amelanchier</i> x <i>grandiflora</i> 'Autumn Brilliance'	1.5' Cal. B&B	B&B	
CA2	American Hornbeam - Blue Beech / <i>Carpinus caroliniana</i>	2' Cal. B&B	NATIVE	Y
CE2	Eastern Redbud Multi-trunk / <i>Cercis canadensis</i>	6' B&B	NOT NATIVE	Y
CA	Pagoda Dogwood / <i>Cornus alternifolia</i>	1.5' Cal. B&B	NATIVE	Y
MP	Prairie Fire Crabapple / <i>Malus</i> x 'Prairie Fire'	1.5' Cal. B&B	B&B	
MS	Spring Snow Crabapple / <i>Malus</i> x 'Spring Snow'	1.5' Cal. B&B	B&B	
SI2	Ivory Silk Japanese Tree Lilac / <i>Syringa reticulata</i> 'Ivory Silk'	6' CLUMP	NOT NATIVE	Y

PLANT SCHEDULE

SHRUBS	QTY	COMMON / BOTANICAL NAME	SIZE	NATIVE PLANTS	POLLINATOR FRIENDLY
DL	43	Dwarf Bush Honeysuckle / <i>Lonicera</i>	#5 CONT	NATIVE	Y
HA	48	Anabelle Hydrangea / <i>Hydrangea arborescens</i> 'Anabelle'	#5 CONT	Nat	
HL2	32	Little Quick Fire Hydrangea / <i>Hydrangea paniculata</i> 'Little Quick Fire'	#5 CONT	NOT NATIVE	Y
HZ	76	Kalm SL. Johnsrant / <i>Hypericum kalmianum</i>	#2 CONT	NATIVE	Y
JW	9	Wichita Blue Juniper / <i>Juniperus scopulorum</i> 'Wichita Blue'	#5 CONT	NOT NATIVE	N
LDN	40	Little David Ninebark / <i>Physocarpus opulifolius</i> 'Dorna May' TM	#5 CONT	NATIVE CULTIVAR	Y
ST	23	Bitchleaf Spiraea / <i>Spiraea betulifolia</i> 'Tor'	#5 CONT	NOT NATIVE	Y
SM	28	Dwarf Korean Lilac / <i>Syringa meyeri</i> 'Palibin'	#7 CONT	NATIVE	
SV	4	Common Lilac / <i>Syringa vulgaris</i>	#5 CONT	NATIVE	
VLD	18	Dark Horse Weigela / <i>Weigela florida</i> 'Dark Horse'	#5 CONT	NOT NATIVE	Y
WM	9	Minuet Weigela / <i>Weigela florida</i> 'Minuet'	#5 CONT	NOT NATIVE	Y

PLANT SCHEDULE

GRASSES	QTY	COMMON / BOTANICAL NAME	SIZE	NATIVE PLANTS	POLLINATOR FRIENDLY
AB3	32	Blackhawk Big Bluestem / <i>Andropogon gerardii</i> 'Blackhawk'	#1 CONT	NATIVE CULTIVAR	Y
CK	29	Feather Reed Grass / <i>Calamagrostis</i> x <i>scutiflora</i> 'Karl Foerster'	#1 CONT	Pol	
PC	19	Switch Grass / <i>Panicum virgatum</i> 'Cape Breeze'	#1 CONT	NATIVE CULTIVAR	Y
PH	21	Heavy Metal Switch Grass / <i>Panicum virgatum</i> 'Heavy Metal'	#1 CONT	NATIVE CULTIVAR	Y
SL	21	Little Bluestem Grass / <i>Schizachyrium scoparium</i>	#1 CONT	NATIVE	Y

PERENNIALS

QTY	COMMON / BOTANICAL NAME	SIZE	NATIVE PLANTS	POLLINATOR FRIENDLY	
ATZ	20	Summer Beauty Ornamental Lily / <i>Lilium longifolium</i> 'Summer Beauty'	#1 CONT	NOT NATIVE	Y
EM	8	Magnus Purple Coneflower / <i>Echinacea purpurea</i> 'Magnus'	#1 CONT	NATIVE CULTIVAR	Y
GB	14	Bevern's Variety Geranium / <i>Geranium maderense</i> 'Bevern's Variety'	#1 CONT	NOT NATIVE	Y
HK	19	Kil Kat Nepeta / <i>Nepeta x faassanii</i> 'Kil Kat'	#1 CONT	NOT NATIVE	Y

PRELIMINARY:
NOT FOR
CONSTRUCTION

RADISSON ROAD TOWNHOMES
11967 & 11965 RADISSON RD NE, BLAINE, MN 55449
RON CLARK CONSTRUCTION
7800 WEST 78TH STREET, EDINA, MN 55439

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

J. J. J. J.
JORDAN M. LOCKMAN
DATE: 2/23/23 LICENSE NO. 45323

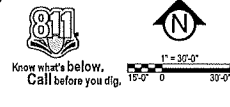
ISSUE/SUBMITTAL SUMMARY

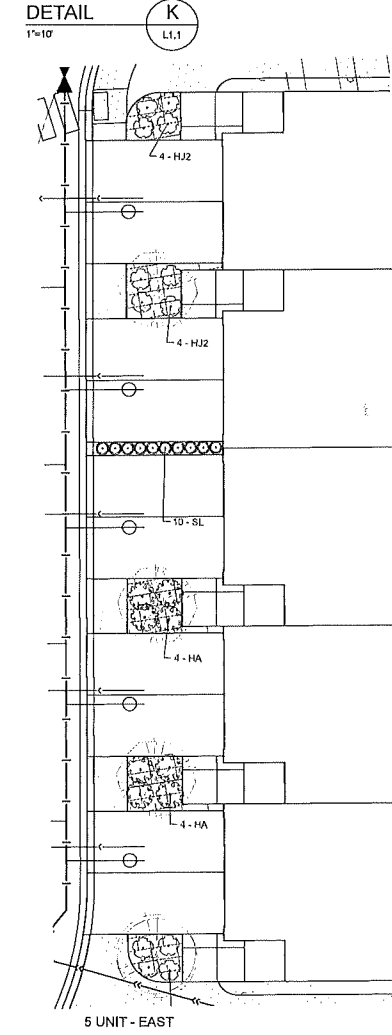
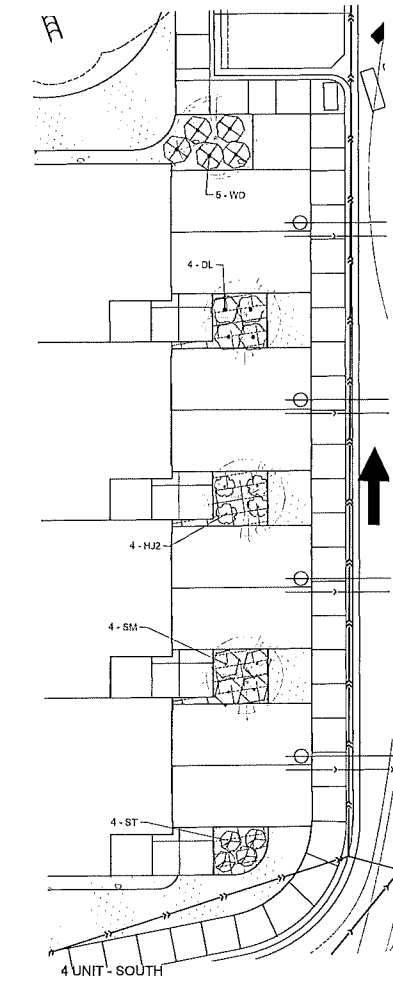
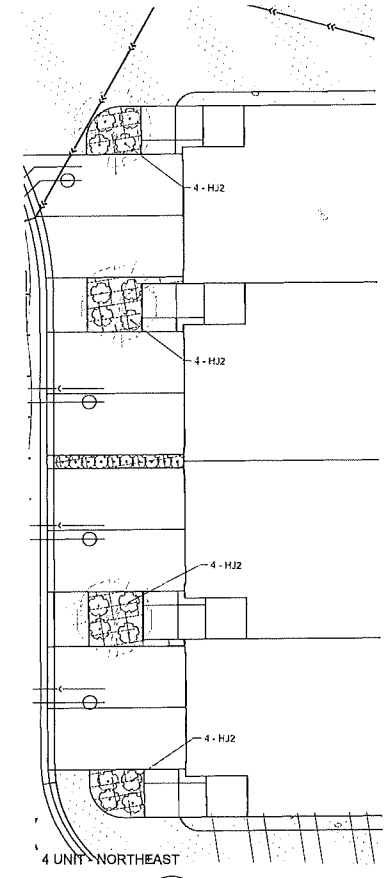
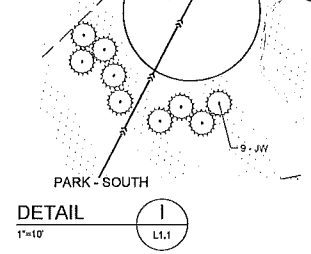
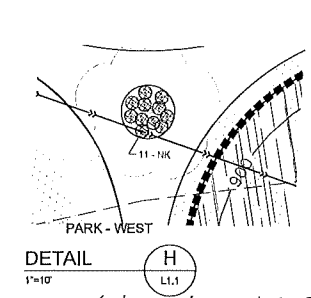
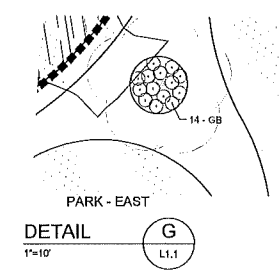
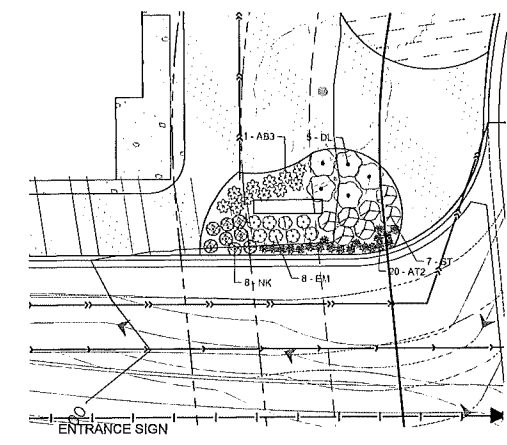
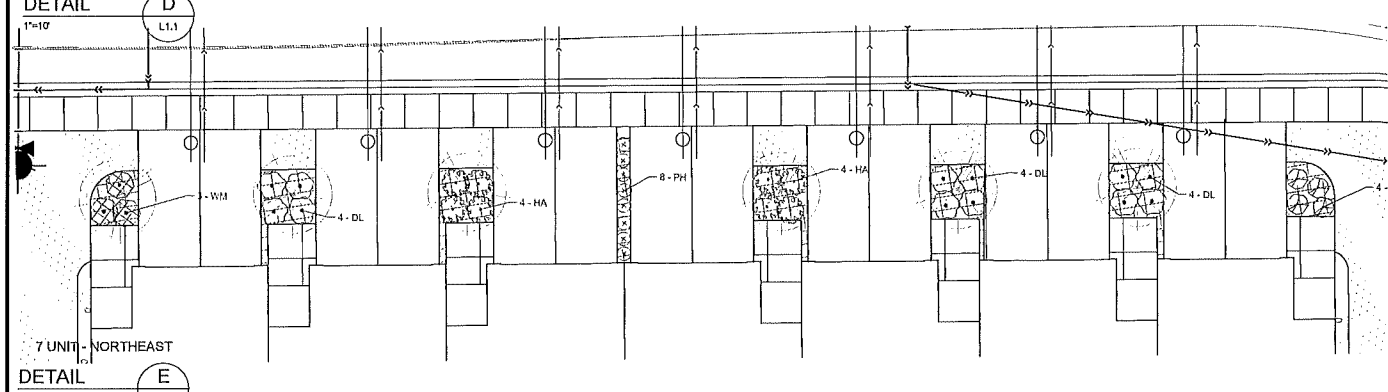
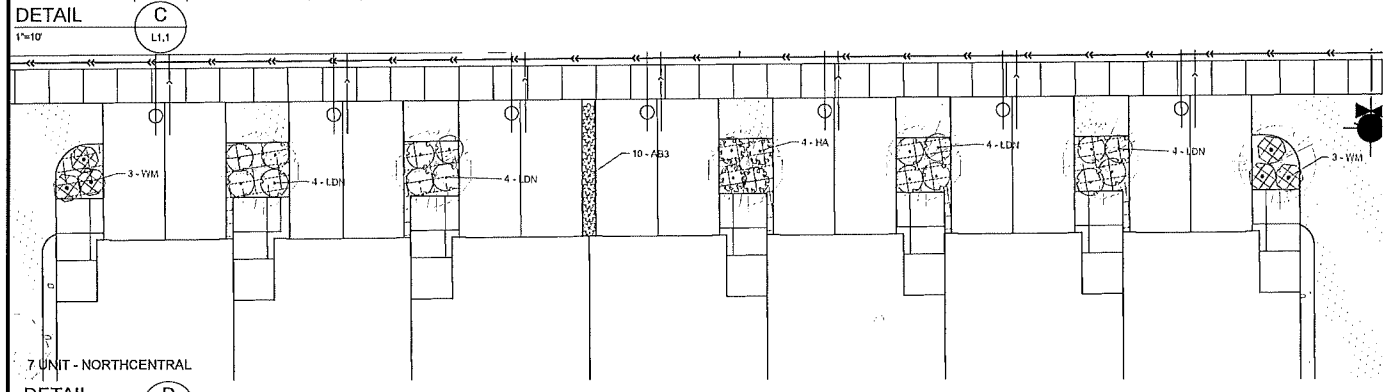
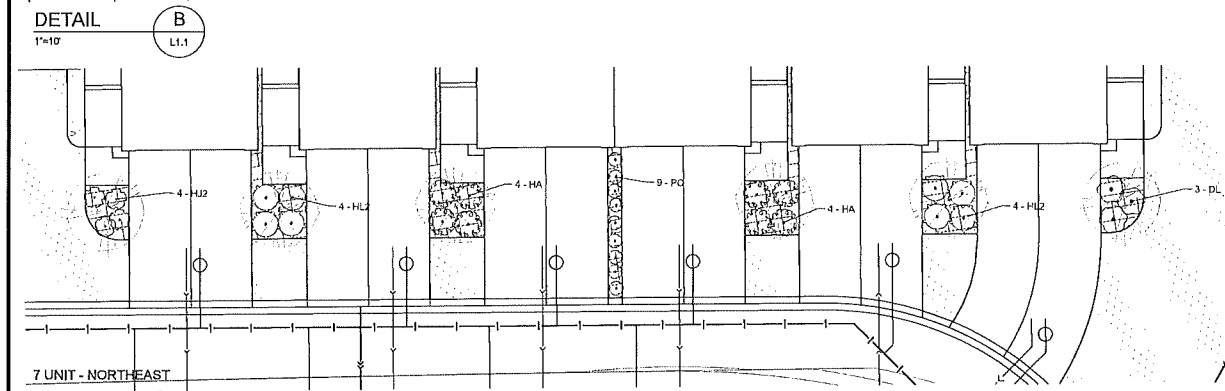
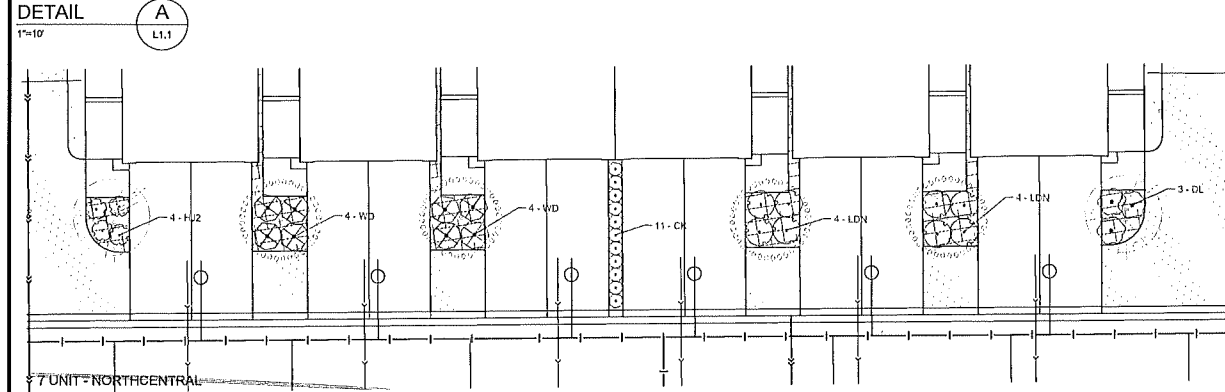
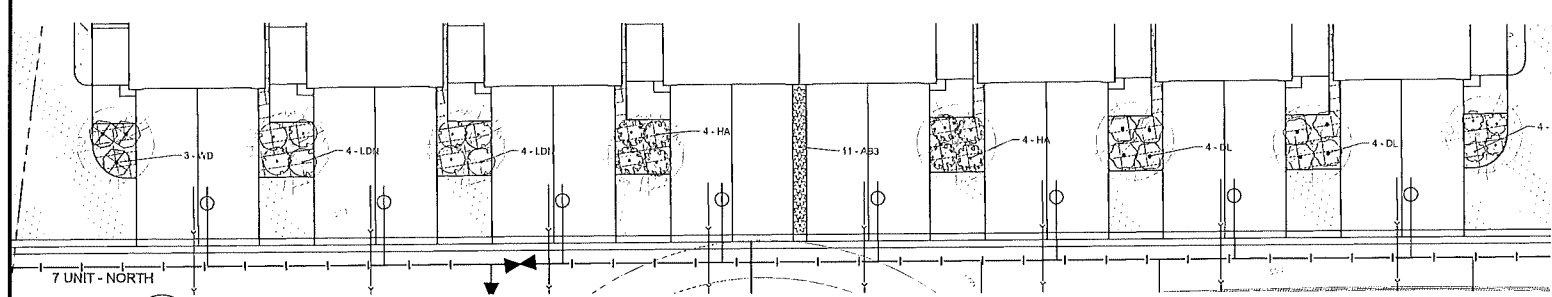
DATE	DESCRIPTION
1/27/23	ISSUED PERMIT
2/23/23	ISSUED PERMIT
2/23/23	ISSUED PERMIT

REVISION SUMMARY

DATE	DESCRIPTION

LANDSCAPE PLAN
L1.0





PRELIMINARY;
NOT FOR
CONSTRUCTION

RADISSON ROAD TOWNHOMES
11967 & 11985 RADISSON RD NE, BLAINE, MN 55449
RON CLARK CONSTRUCTION
7500 WEST 78TH STREET, EDINA, MN 55439

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J. Lockman
JORDAN W. LOCKMAN
DATE 2/2/23 LICENSE NO. 45523

DATE	DESCRIPTION
1/15/23	ISSUED PERMIT
1/15/23	ISSUED PERMIT
1/15/23	ISSUED PERMIT

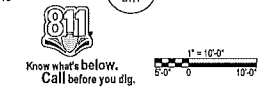
DATE	DESCRIPTION

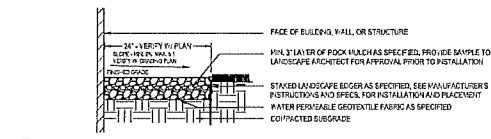
CREATED BY: JWL
PROJECT NUMBER: 202301

DATE	DESCRIPTION

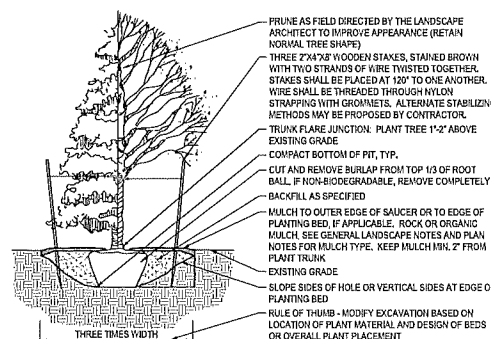
LANDSCAPE PLAN
NOTES & DETAILS

L1.1

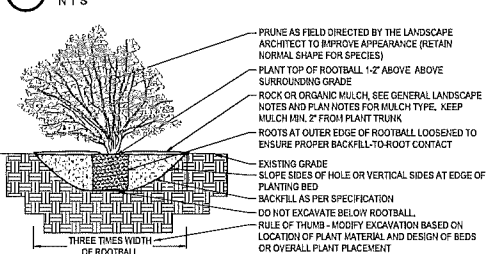




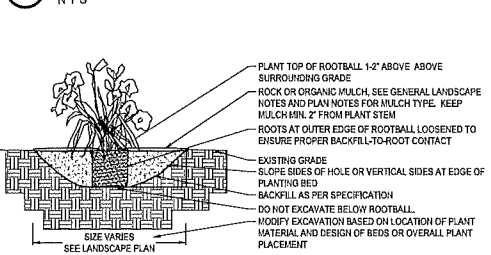
1 AGGREGATE MAINTENANCE STRIP
N T S



2 DECIDUOUS & CONIFEROUS TREE PLANTING
N T S

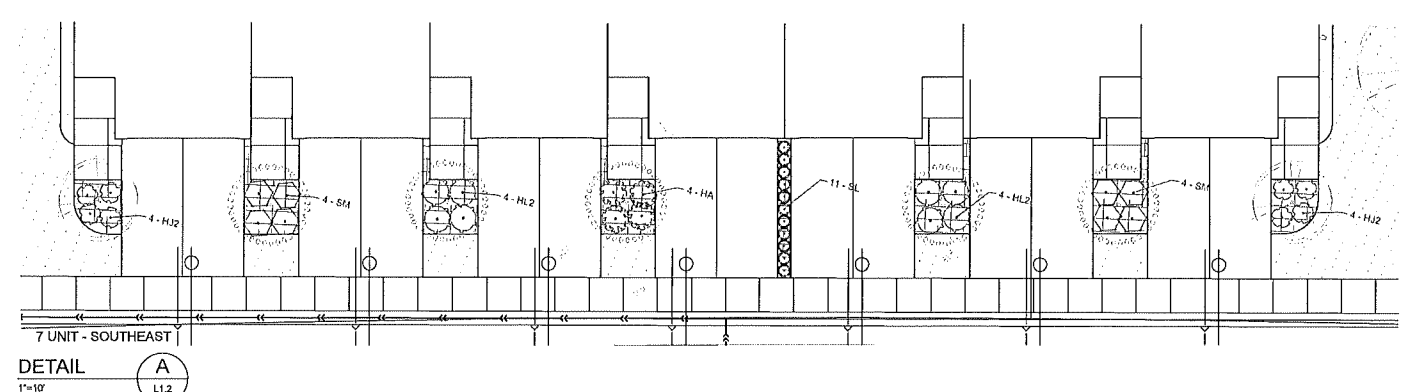


3 DECIDUOUS & CONIFEROUS SHRUB PLANTING
N T S

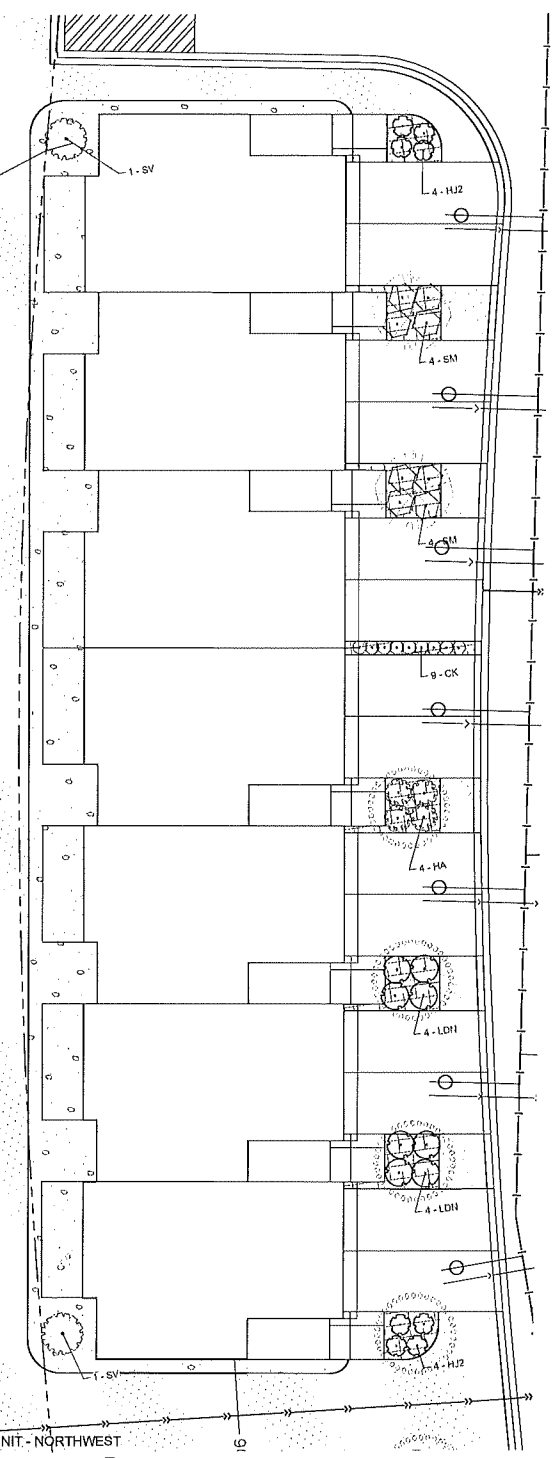


4 PERENNIAL BED PLANTING
N T S

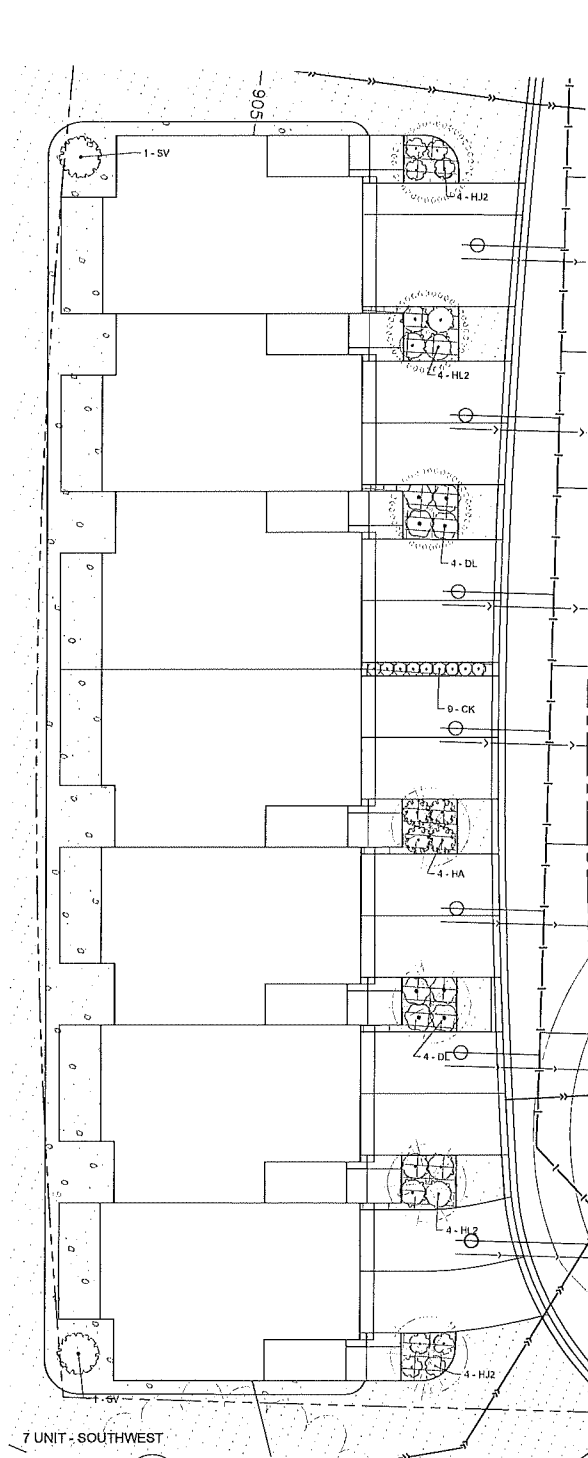
- IRRIGATION NOTES:**
- ENTIRE SITE SHALL BE FULLY IRRIGATED. THE CONTRACTOR SHALL SUBMIT IRRIGATION SHOP DRAWINGS FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
 - SEE MECHANICAL AND ELECTRICAL PLANS AND SPECIFICATIONS FOR IRRIGATION WATER, METER, AND POWER CONNECTIONS.
 - CONTRACTOR TO VERIFY LOCATION OF ALL UNDERGROUND/ABOVE GROUND FACILITIES PRIOR TO ANY EXCAVATION/INSTALLATION. ANY DAMAGE TO UNDERGROUND/ABOVE GROUND FACILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND COSTS ASSOCIATED WITH CORRECTING DAMAGES SHALL BE BORNE ENTIRELY BY THE CONTRACTOR.
 - SERVICE EQUIPMENT AND INSTALLATION SHALL BE PER LOCAL UTILITY COMPANY STANDARDS AND SHALL BE PER NATIONAL AND LOCAL CODES. EXACT LOCATION OF SERVICE EQUIPMENT SHALL BE COORDINATED WITH THE LANDSCAPE ARCHITECT OR EQUIVALENT AT THE JOB SITE.
 - CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANY FOR THE PROPOSED ELECTRICAL SERVICE AND METERING FACILITIES.
 - IRRIGATION WATER LINE CONNECTION SIZE IS 1 1/2" AT BUILDING. VERIFY WITH MECHANICAL PLANS/COVERAGE.
 - ALL MAIN LINES SHALL BE 18" BELOW FINISHED GRADE.
 - ALL LATERAL LINES SHALL BE 12" BELOW FINISHED GRADE.
 - ALL EXPOSED PVC RISERS, IF ANY, SHALL BE GRAY IN COLOR.
 - CONTRACTOR SHALL LAY ALL SLEEVES AND CONDUIT AT 2'-0" BELOW THE FINISHED GRADE OF THE TOP OF PAVEMENT. EXTEND SLEEVES TO 2'-0" BEYOND PAVEMENT.
 - CONTRACTOR SHALL MARK THE LOCATION OF ALL SLEEVES AND CONDUIT WITH THE SLEEVING MATERIAL "ELED" TO 2'-0" ABOVE FINISHED GRADE AND CAPPED.
 - FABRICATE ALL PIPE TO MANUFACTURER'S SPECIFICATIONS WITH CLEAN AND SQUARE CUT JOINTS. USE QUALITY GRADE PRIMER AND SOLVENT CEMENT FORMULATED FOR INTENDED TYPE OF CONNECTION.
 - BACKFILL ALL TRENCHES WITH SOIL FREE OF SHARP OBJECTS AND DEBRIS.
 - ALL VALVE BOXES AND COVERS SHALL BE BLACK IN COLOR.
 - GROUP VALVE BOXES TOGETHER FOR EASE WHEN SERVICE IS REQUIRED. LOCATE IN PLANT BED AREAS WHENEVER POSSIBLE.
 - IRRIGATION CONTROLLER LOCATION SHALL BE VERIFIED ON-SITE WITH OWNER'S REPRESENTATIVE.
 - CONTROL WIRES: 14 GAUGE DIRECT BURIAL, SOLID COPPER IRRIGATION WIRE. RUN UNDER MAIN LINE. USE MOISTURE-PROOF SPLICES AND SPLICE ONLY AT VALVES OR PULL BOXES. RUN SEPARATE HOT AND COMMON WIRE TO EACH VALVE AND ONE (1) SPARE WIRE AND GROUND TO FURTHEST VALVE FROM CONTROLLER, LABEL OR CODE ALL WIRES.
 - AVOID OVER SPRAY ON BUILDINGS, PAVEMENT, WALLS AND ROADWAYS BY INDIVIDUALLY ADJUSTING RADIUS OR ARC ON SPRINKLER HEADS AND FLOW CONTROL ON AUTOMATIC VALVE.
 - ADJUST PRESSURE REGULATING VALVES FOR OPTIMUM PRESSURE ON SITE.
 - USE SCREENS ON ALL HEADS.
 - A SET OF AS-BUILT DRAWINGS SHALL BE MAINTAINED ON-SITE AT ALL TIMES IN AN UPDATED CONDITION.
 - ALL PIPE 3" AND OVER SHALL HAVE THRUST BLOCKING AT EACH TURN.
 - ALL AUTOMATIC REMOTE CONTROL VALVES WILL HAVE 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL UNDERNEATH VALVE AND VALVE BOX. GRAVEL SHALL EXTEND 2' BEYOND PERIMETER OF VALVE BOX.
 - THERE SHALL BE 3" MINIMUM SPACE BETWEEN BOTTOM OF VALVE BOX COVER AND TOP OF VALVE STRUCTURE.



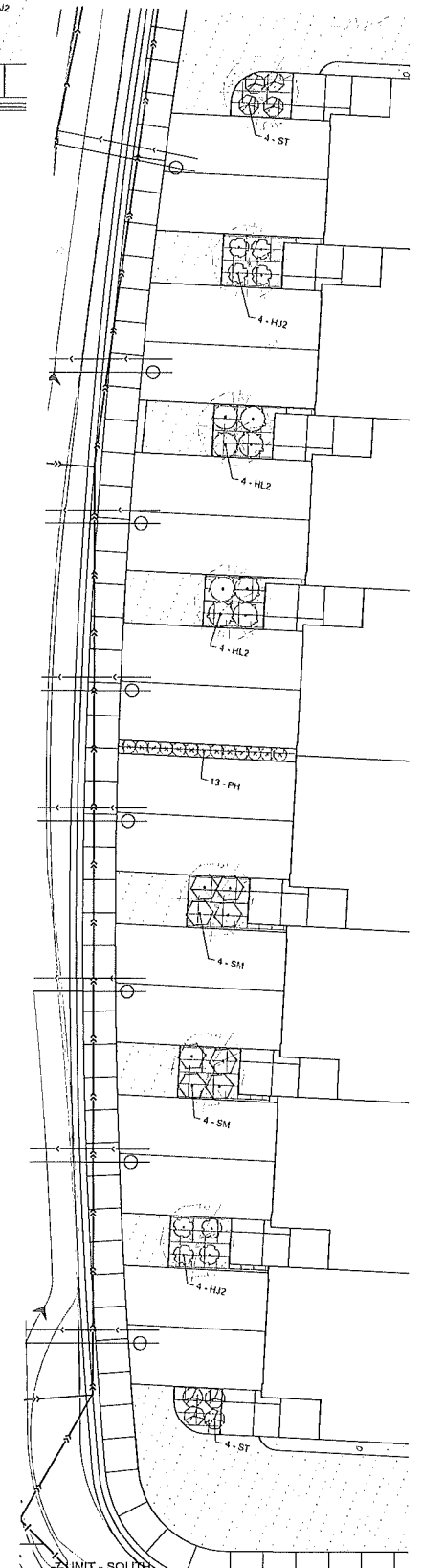
DETAIL A
1"=10'



DETAIL B
1"=10'



DETAIL C
1"=10'



DETAIL D
1"=10'

PRELIMINARY;
NOT FOR
CONSTRUCTION

RADISSON ROAD TOWNHOMES
11967 & 11965 RADISSON RD NE, BLAINE, MN 55449
RON CLARK CONSTRUCTION
7500 WEST 70TH STREET, EDINA, MN 55439

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J. Clark
JORDAN W. LOCKKORN
DATE 2/23/23 LICENSE NO. 48523

DATE	DESCRIPTION
1/23/23	ISSUED FOR PERMIT
1/23/23	ISSUED FOR PERMIT
1/23/23	ISSUED FOR PERMIT

DESIGNED BY: JML
CHECKED BY: JML
PROJECT NUMBER: 230301

REVISION SUMMARY
DATE/DESCRIPTION

LANDSCAPE PLAN NOTES & DETAILS

L1.2



PRELIMINARY;
NOT FOR
CONSTRUCTION

PROJECT
RADISSON ROAD TOWNHOMES
11967 & 11985 RADISSON RD NE, BLAINE, MN 55449
RON CLARK CONSTRUCTION
7600 WEST 78TH STREET, EDINA, MN 55439

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Paul J. Knudde
Paul J. Knudde
DATE 2/23/23 LICENSE NO. 48176

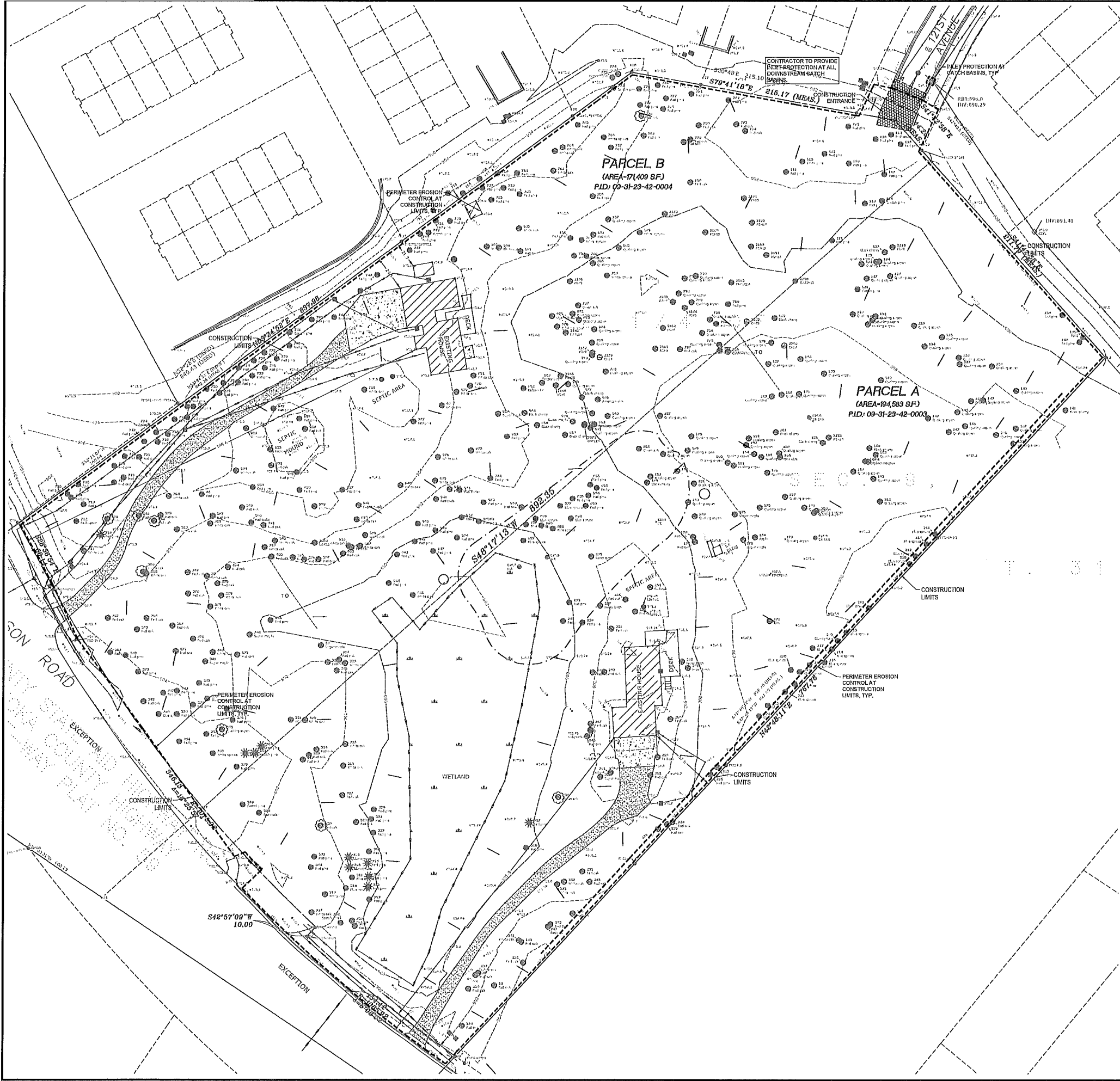
DATE	DESCRIPTION
1/27/23	ISSUED FOR PERMIT
2/23/23	ISSUED FOR CONSTRUCTION
2/23/23	ISSUED FOR PERMIT

DATE	DESCRIPTION

DATE	DESCRIPTION

SWPPP - EXISTING CONDITIONS

SW1.0



CITY OF BLAINE EROSION CONTROL NOTES:
1. RESERVED FOR CITY SPECIFIC EROSION CONTROL NOTES.

ALL SPECIFIED EROSION AND SEDIMENT CONTROL PRACTICES, AND MEASURES CONTAINED IN THIS SWPPP ARE THE MINIMUM REQUIREMENTS. ADDITIONAL PRACTICES MAY BE REQUIRED DURING THE COURSE OF CONSTRUCTION.

- SWPPP NOTES:**
1. THIS PROJECT IS GREATER THAN ONE ACRE AND WILL REQUIRE AN NPDES PERMIT. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY EROSION CONTROL PERMITS REQUIRED BY THE CITY.
 2. SEE SHEETS SW1.0 - SW1.5 FOR ALL EROSION CONTROL NOTES, DESCRIPTIONS, AND PRACTICES.
 3. SEE GRADING PLAN FOR ADDITIONAL GRADING AND EROSION CONTROL NOTES.
 4. CONTRACTOR IS RESPONSIBLE FOR SWPPP IMPLEMENTATION, INSPECTIONS, AND COMPLIANCE WITH NPDES PERMIT.

LEGEND:

--- 1125 ---	EX. 1' CONTOUR ELEVATION INTERVAL
--- 1137 ---	10' CONTOUR ELEVATION INTERVAL
→	DRAINAGE ARROW
-----	SILT FENCE / BIOROLL - GRADING LIMIT
□	INLET PROTECTION
▨	STABILIZED CONSTRUCTION ENTRANCE



PRELIMINARY;
NOT FOR
CONSTRUCTION

RADISSON ROAD TOWNHOMES
11967 & 11965 RADISSON RD NE, BLAINE, MN 55449
RON CLARK CONSTRUCTION
7500 WEST 70TH STREET, EDINA, MN 55438

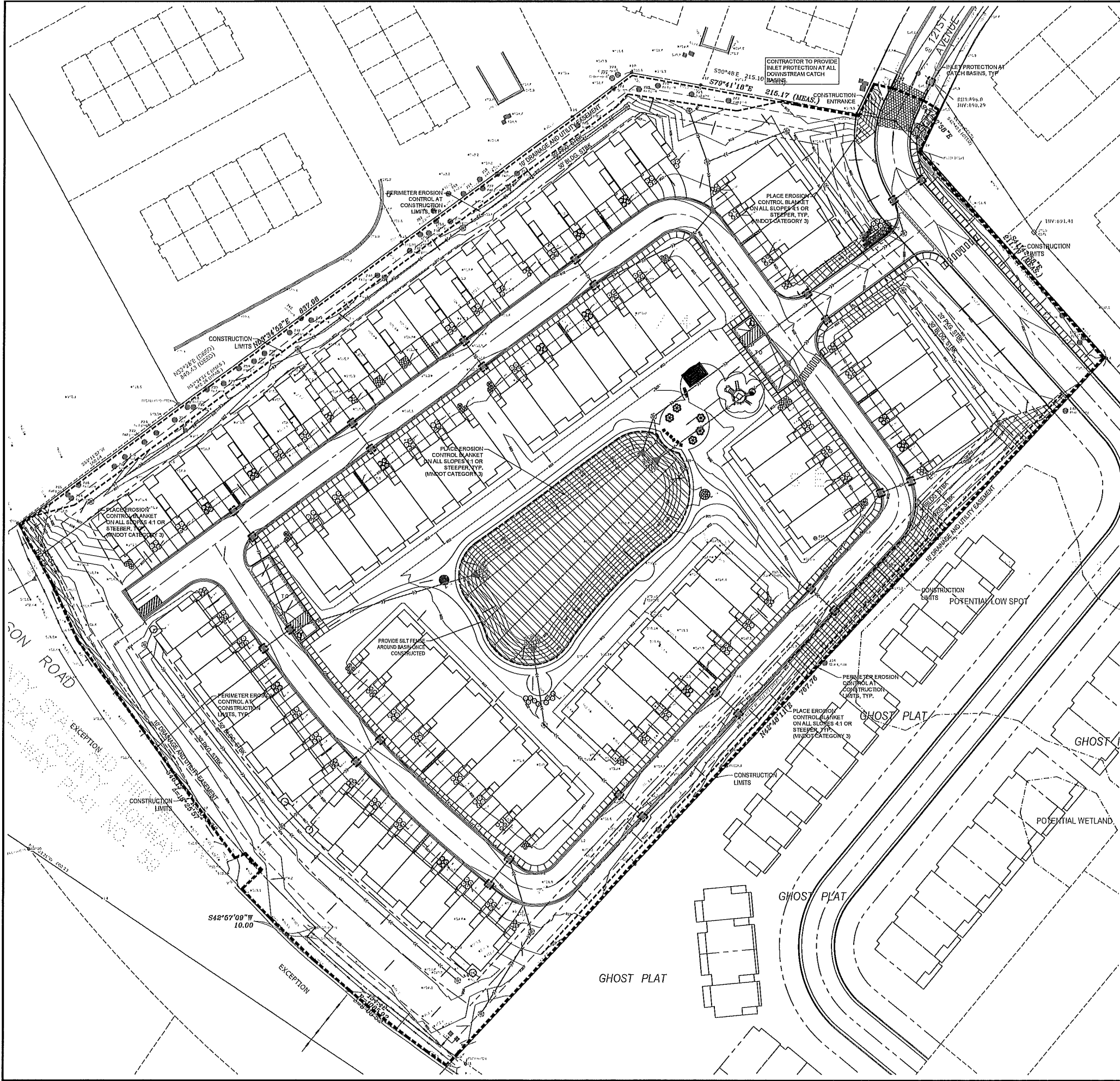
PROJECT

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Paul J. Kuehl
Paul J. Kuehl
DATE 2/23/23 LICENSE NO. 48176

ISSUE/SUBMITTAL SUMMARY	DATE/DESCRIPTION
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1.0201	ISSUED FOR PERMIT
1.0301	ISSUED FOR PERMIT
1.0401	ISSUED FOR PERMIT
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1.1000	ISSUED FOR PERMIT

SWPPP - PROPOSED CONDITIONS
SW1.1



CITY OF BLAINE EROSION CONTROL NOTES:
1. RESERVED FOR CITY SPECIFIC EROSION CONTROL NOTES.

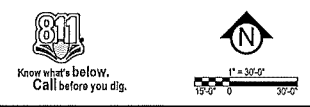
COON CREEK WATERSHED DISTRICT NOTES:
1. DE-COMPACT ALL FERROUS AREAS.

ALL SPECIFIED EROSION AND SEDIMENT CONTROL PRACTICES, AND MEASURES CONTAINED IN THIS SWPPP ARE THE MINIMUM REQUIREMENTS. ADDITIONAL PRACTICES MAY BE REQUIRED DURING THE COURSE OF CONSTRUCTION.

- SWPPP NOTES:**
1. THIS PROJECT IS GREATER THAN ONE ACRE AND WILL REQUIRE AN NPDES PERMIT. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY EROSION CONTROL PERMITS REQUIRED BY THE CITY.
 2. SEE SHEETS SW1.0 - SW1.5 FOR ALL EROSION CONTROL NOTES, DESCRIPTIONS, AND PRACTICES.
 3. SEE GRADING PLAN FOR ADDITIONAL GRADING AND EROSION CONTROL NOTES.
 4. CONTRACTOR IS RESPONSIBLE FOR SWPPP IMPLEMENTATION, INSPECTIONS, AND COMPLIANCE WITH NPDES PERMIT.

LEGEND:

--- 1125 ---	EX. 1' CONTOUR ELEVATION INTERVAL
--- 1137 ---	1.5' CONTOUR ELEVATION INTERVAL
→	DRAINAGE ARROW
-----	SILT FENCE / BIOROLL - GRADING LIMIT
□	INLET PROTECTION
▨	STABILIZED CONSTRUCTION ENTRANCE
▩	EROSION CONTROL BLANKET



- USE PROPER EQUIPMENT SUCH THAT THE SOIL IS SLICED, NOT TURNED OVER.
- GEOTEXTILE FABRIC EMBEDDED 8" TO 12" IN THE SOIL SLIT, LEAVING ABOUT 2" OF FABRIC ABOVE GROUND.
- COMPACT THE SOIL IMMEDIATELY NEXT TO THE GEOTEXTILE BY DRIVING OVER IT WITH A TRACTOR TIRE AT LEAST TWICE.
- STEEL T-POSTS PLACED ON DOWNSTREAM SIDE OF WATER FLOW EMBEDDED AT LEAST 2' INTO THE GROUND. MAXIMUM SPACING 6'. NIPPLES ON POST FACE AWAY FROM THE GEOTEXTILE TO KEEP TIES FROM SLIPPING ON POST.
- FOR STEEL POSTS USE 3 PLASTIC ZIP TIES (50 LB TENSILE) AT LEAST 1' APART TO SECURE THE GEOTEXTILE TO EACH POST WITHIN THE TOP 8".
- FENCE SHALL BE HEAVY DUTY TYPE.
- USE WOOD LATHE AND STAPLES ON FACE OF SILT FENCE TO SECURE TO WOOD POSTS.
- CONTRACTOR SHALL REMOVE FENCE AND POSTS PER SPECIFICATIONS.

NEW DEVELOPMENTS:
INSTALL 4' BEHIND CURB AFTER FINAL GRADING OR INSTALL 2' BEHIND SIDEWALK AFTER FINAL GRADING

FASTEN SILT FENCE SECURELY TO POST

TIRE COMPACTION ZONE

FLOW

MACHINE SLICE 6"-12" DEPTH

5' MINIMUM LENGTH POST AT 6' MAXIMUM SPACING FOR STEEL POSTS. 4' MINIMUM LENGTH POST AT 4' MAXIMUM SPACING FOR WOOD POSTS.

2' MINIMUM

2' MINIMUM POST EMBEDMENT

SILT FENCE MATERIALS SHALL MEET MNDOT SPECIFICATION 3886
CONTRACTOR SHALL REMOVE FENCE AND POSTS PER SPECIFICATIONS.

MACHINE SLICED SILT FENCE Plate No. EC-1

2020 STANDARD DETAIL PLATE
City of Blaine - Engineering Department
1001 Town Square Drive NE, Blaine, Minnesota 55449 763.785.6172 Fax 763.785.6139

- USE PROPER EQUIPMENT SUCH THAT THE SOIL IS SLICED, NOT TURNED OVER.
- GEOTEXTILE FABRIC EMBEDDED 8" TO 12" IN THE SOIL SLIT, LEAVING ABOUT 2" OF FABRIC ABOVE GROUND.
- COMPACT THE SOIL IMMEDIATELY NEXT TO THE GEOTEXTILE BY DRIVING OVER IT WITH A TRACTOR TIRE AT LEAST TWICE.
- STEEL T-POSTS PLACED ON DOWNSTREAM SIDE OF WATER FLOW EMBEDDED AT LEAST 2' INTO THE GROUND. MAXIMUM SPACING 6'. NIPPLES ON POST FACE AWAY FROM THE GEOTEXTILE TO KEEP TIES FROM SLIPPING ON POST.
- FOR STEEL POSTS USE 3 PLASTIC ZIP TIES (50 LB TENSILE) AT LEAST 1' APART TO SECURE THE GEOTEXTILE TO EACH POST WITHIN THE TOP 8".
- FENCE SHALL BE HEAVY DUTY TYPE.
- USE WOOD LATHE AND STAPLES ON FACE OF SILT FENCE TO SECURE TO WOOD POSTS.
- CONTRACTOR SHALL REMOVE FENCE AND POSTS PER SPECIFICATIONS.

GEOTEXTILE FABRIC 3' WIDE. FASTEN SILT FENCE SECURELY TO POST

FABRIC ANCHORAGE TRENCH. BACKFILL WITH TAMPED NATURAL SOIL

FLOW

6' MIN.

4' MIN.

2' MINIMUM POST EMBEDMENT

5' MINIMUM LENGTH POST AT 6' MAXIMUM SPACING FOR STEEL POSTS. 4' MINIMUM LENGTH POST AT 4' MAXIMUM SPACING FOR WOOD POSTS.

2'

NEW DEVELOPMENTS:
INSTALL 4' BEHIND CURB AFTER FINAL GRADING OR INSTALL 2' BEHIND SIDEWALK AFTER FINAL GRADING

BACKFILL OVER TOP OF FABRIC AND COMPACT SOIL

SILT FENCE MATERIALS SHALL MEET MNDOT SPECIFICATION 3886
CONTRACTOR SHALL REMOVE FENCE AND POSTS PER SPECIFICATIONS.

HEAVY DUTY SILT FENCE Plate No. EC-2

2020 STANDARD DETAIL PLATE
City of Blaine - Engineering Department
1001 Town Square Drive NE, Blaine, Minnesota 55449 763.785.6172 Fax 763.785.6139

1" - 3" WASHED ROCK

6" MINIMUM

PROFILE

25' MINIMUM RESIDENTIAL LOTS
50' MINIMUM OTHER AREAS

EXISTING ROADWAY

10' MINIMUM RESIDENTIAL LOTS
20' MINIMUM OTHER AREAS

PLAN

ROCK CONSTRUCTION ENTRANCE Plate No. EC-3

2020 STANDARD DETAIL PLATE
City of Blaine - Engineering Department
1001 Town Square Drive NE, Blaine, Minnesota 55449 763.785.6172 Fax 763.785.6139

DEFLECTOR PLATE

OVERFLOW 1
CENTER OF FILTER

OVERFLOW 2
TOP OF CURB BOX

CURB

10" HIGH-FLOW FILTER

NOTES:
• WIMCO CG MODEL OR APPROVED EQUAL TO MATCH CASTING
• SILT FENCE/FABRIC NOT ALLOWED TO BE USED AS INLET PROTECTION

INLET PROTECTION FOR CURB AND GUTTER Plate No. EC-4

2020 STANDARD DETAIL PLATE
City of Blaine - Engineering Department
1001 Town Square Drive NE, Blaine, Minnesota 55449 763.785.6172 Fax 763.785.6139

POLYESTER SLEEVE

FILTER ASSEMBLY

MANHOLE COVER ASSEMBLY

POLYESTER SLEEVE

FILTER ASSEMBLY

MANHOLE COVER ASSEMBLY

MANHOLE

ISOMETRIC VIEW

IN-PLACE ELEVATION VIEW

WIMCO RD 27 OR OTHER APPROVED DEVICE

ORANGE SILT FENCE FOR VISIBILITY

SOD OR BLANKET

STORM SEWER CATCH BASIN WITH INLET PROTECTION

TYPICAL SODDING DETAIL FOR YARD CATCH BASIN

BACK YARD CATCH BASIN INLET PROTECTION Plate No. EC-5

2020 STANDARD DETAIL PLATE
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8"-12" DIA LOG WITH ENDS LAPPED 6". TRENCH BEHIND CURB AT A DEPTH EQUAL TO 1/4 THE LOG DIA.

EXISTING CURB

STREET PAVEMENT

1"x2"x24" WOOD STAKE AT A 3' MAX SPACING. PROVIDE A 8"-10" OF STAKE EMBEDMENT.

CURB INSTALLATION

1"x2"x24" WOOD STAKES AT 3' MAX SPACING. STAKES SHALL BE DRIVEN OVER LOG AT A 45° ANGLE WITH TOP OF STAKE POINTING UPSTREAM. PROVIDE 8"-10" OF STAKE EMBEDMENT.

8"-12" DIA LOG WITH ENDS LAPPED 6". FOR INSTALLATION ON BARE SOIL. PLACE LOG IN A SMOOTH, ROUNDED TRENCH WITH A DEPTH EQUAL TO 1/4 THE LOG DIA.

FLOW

FIELD INSTALLATION USING MULCH OR COMPOST

1"x2"x24" WOOD STAKES AT 3' MAX SPACING. STAKES SHALL BE DRIVEN THROUGH BACK HALF OF LOG AT A 45° ANGLE WITH TOP OF STAKE POINTING UPSTREAM. PROVIDE 8"-10" OF STAKE EMBEDMENT.

8"-12" DIA LOG WITH ENDS LAPPED 6". FOR INSTALLATION ON BARE SOIL. PLACE LOG IN A SMOOTH, ROUNDED TRENCH WITH A DEPTH EQUAL TO 1/4 THE LOG DIA.

FLOW

FIELD INSTALLATION USING STRAW OR WOOD FIBER

SEDIMENT CONTROL LOG INSTALLATION Plate No. EC-B

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CATEGORY 3 EROSION CONTROL BLANKET

POINT B (SEE NOTE 3)

4"x4" TRENCH BACKFILL OVER EROSION CONTROL BLANKET

POINT A (SEE NOTE 3)

FLOW

STRAW OR WOOD FIBER BIO ROLL 8"-12" DIA. ROLL ENCLOSED IN PLASTIC OR POLYESTER NETTING

8", 11 GA. BLANKET STAPLES SPACED 1' ON CENTER

NOTES:
1. SEE DETAIL EC-8 FOR BIOROLL STAKE INSTALLATION.
2. APPROXIMATE SPACING OF DITCH CHECK (FT) = DITCH CHECK HEIGHT (FT) X 100 % CHANNEL SLOPE
3. POINT "A" MUST BE A MINIMUM OF 6 INCHES HIGHER THAN POINT "B" TO ENSURE THAT WATER FLOWS OVER THE DITCH CHECK AND NOT AROUND THE ENDS.

BIOROLL BLANKET SYSTEM DITCH CHECK Plate No. EC-9

2020 STANDARD DETAIL PLATE
City of Blaine - Engineering Department
1001 Town Square Drive NE, Blaine, Minnesota 55449 763.785.6172 Fax 763.785.6139

PRELIMINARY:
NOT FOR CONSTRUCTION

PROJECT
RADISSON ROAD TOWNHOMES
11967 & 11985 RADISSON RD NE, BLAINE, MN 55449
7800 WEST 70TH STREET, EDINA, MN 55438

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Paul J. Knudde
Dir. G. J. Knudde
DATE 2/28/23 LICENSE NO. 49778

ISSUE/SUBMITTAL SUMMARY	DATE	DESCRIPTION
11001	1/10/2023	INITIAL
11002	1/10/2023	REVISION
11003	1/10/2023	REVISION
11004	1/10/2023	REVISION
11005	1/10/2023	REVISION
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11050	1/10/2023	REVISION

THE CONTRACTOR AND ALL SUBCONTRACTORS INVOLVED WITH A CONSTRUCTION ACTIVITY THAT DISTURBS SOIL OR IN ANY MANNER IMPLEMENT A POLLUTANT CONTROL MEASURE IDENTIFIED IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) MUST COMPLY WITH THE REQUIREMENTS OF THE WATER POLLUTION DISCHARGE ELIMINATION SYSTEM (WPDES) GENERAL PERMIT (DATED AUGUST 1, 2018 WITH 2025) AND ANY LOCAL GOVERNING AGENCY HAVING JURISDICTION CONCERNING EROSION AND SEDIMENTATION CONTROL.

STORMWATER DISCHARGE DESIGN REQUIREMENTS

SWPPP

THE NATURE OF THIS PROJECT WILL BE CONSISTENT WITH WHAT IS REPRESENTED IN THIS SET OF CONSTRUCTION PLANS AND SPECIFICATIONS. SEE THE SWPPP PLAN SHEETS AND SWPPP NARRATIVE ATTACHMENT A. CONSTRUCTION SWPPP TEMPLATE FOR ADDITIONAL SITE SPECIFIC SWPPP INFORMATION. THE PLANS SHOW LOCATIONS AND TYPES OF ALL TEMPORARY AND PERMANENT EROSION PREVENTION AND SEDIMENT CONTROL BMPs. STANDARD DETAILS ARE ATTACHED TO THIS SWPPP DOCUMENT.

THE INTENDED SEQUENCING OF MAJOR CONSTRUCTION ACTIVITIES IS AS FOLLOWS:

- 1. INSTALL STABILIZED ROCK CONSTRUCTION ENTRANCE
2. INSTALLATION OF SILT FENCE AROUND SITE
3. INSTALL ORANGE CONSTRUCTION FENCING AROUND FILTRATION AREAS
4. INSTALL INLET PROTECTION AT ALL ADJACENT AND DOWNSTREAM CATCH BASINS
5. CLEAR AND GRUB FOR TEMPORARY SEDIMENT BASIN (SECTION 14)
6. CONSTRUCT TEMPORARY SEDIMENT BASIN/ POND (SECTION 14)
7. CLEAR AND GRUB REMAINING OF SITE
8. STPP AND STOCKPILE TOPSOIL
9. DEMOLITION OF SITE
10. ESTABLISH DEMARLED AREAS AND STOCKPILES
11. INSTALL SANITARY SEWER, WATER MAIN STORM SEWER AND SERVICES
12. INSTALL SILT FENCE INLET PROTECTION AROUND CURBS
13. INSTALL STREET SECTION
14. INSTALL CURBS AND GUTTER
15. INSTALL VIEWS ON STREETS
16. FINAL GRADE BOLLARDS, INSTALL SEED AND MULCH
17. REMOVE ACCUMULATED SEDIMENT FROM BASIN/ POND
18. FINAL GRADE POND (FILTRATION BASIN) DO NOT COMPACT SOILS IN FILTRATION AREAS.
19. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED BY EITHER SEED OR SOIL/LANDSCAPING, REMOVE SILT FENCE AND RESEED ANY AREAS DISTURBED BY THE REMOVAL.

RECORDS RETENTION:

THE SWPPP (ORIGINAL OR COPIES) INCLUDING ALL CHANGES TO IT AND INSPECTIONS AND MAINTENANCE RECORDS MUST BE KEPT AT THE SITE DURING CONSTRUCTION BY THE PERMITTEE WHO HAS OPERATIONAL CONTROL OF THAT PORTION OF THE SITE. THE SWPPP CAN BE KEPT IN EITHER THE FIELD OFFICE OR IN AN ON SITE VEHICLE DURING NORMAL WORKING HOURS.

ALL OWNERS MUST KEEP THE SWPPP ALONG WITH THE FOLLOWING ADDITIONAL RECORDS, ON FILE FOR THREE (3) YEARS AFTER SUBMITTAL OF THE NOT AS OUTLINED IN SECTION 4. THIS DOES NOT INCLUDE ANY RECORDS AFTER SUBMITTAL OF THE NOT.

- 1. THE FINAL SWPPP.
2. ANY OTHER STORMWATER RELATED PERMITS REQUIRED FOR THE PROJECT.
3. RECORDS OF ALL INSPECTIONS AND MAINTENANCE CONDUCTED DURING CONSTRUCTION (SEE SECTION 11, INSPECTIONS AND MAINTENANCE).
4. ALL PERMANENT OPERATION AND MAINTENANCE AGREEMENTS THAT HAVE BEEN ENTERED INTO, INCLUDING ALL RIGHT OF WAY, CONTRACTS, COVENANTS AND OTHER BINDING REQUIREMENTS REGARDING PERMANENT MAINTENANCE, AND
5. ALL REQUIRED CALCULATIONS FOR DESIGN OF THE TEMPORARY AND PERMANENT STORMWATER MANAGEMENT SYSTEMS.

SWPPP IMPLEMENTATION RESPONSIBILITIES:

- 1. THE OWNER AND CONTRACTOR ARE PERMITTED/AS IDENTIFIED BY THE WPDES PERMIT.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON-SITE IMPLEMENTATION OF THE SWPPP, INCLUDING THE ACTIVITIES OF ALL OF THE CONTRACTORS SUBCONTRACTORS.
3. CONTRACTOR SHALL PROVIDE PERSONNEL KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMPs TO OVERSEE ALL INSTALLATION AND MAINTENANCE OF BMPs AND IMPLEMENTATION OF THE SWPPP.
4. CONTRACTOR SHALL PROVIDE PERSONNEL MEETING THE TRAINING REQUIREMENTS OF THE WPDES PERMIT TO CONDUCT INSPECTION AND MAINTENANCE OF ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPs IN ACCORDANCE WITH THE REQUIREMENTS OF THE PERMIT. ONE OF THESE INDIVIDUALS MUST BE AVAILABLE FOR AN ON-SITE INSPECTION WITHIN 72 HOURS UPON REQUEST BY MPCA. CONTRACTOR SHALL PROVIDE TRAINING DOCUMENTATION FOR THESE PERSONNEL TO THE MPCA PERMITTEE. THIS TRAINING DOCUMENTATION SHALL BE RECORDED FOR WITH THE SWPPP BEFORE THE START OF CONSTRUCTION OR AS SOON AS THE PERSONNEL FOR THE PROJECT HAVE BEEN DETERMINED. DOCUMENTATION SHALL INCLUDE:
4.1. NAMES OF THE PERSONNEL ASSOCIATED WITH THE PROJECT THAT ARE REQUIRED TO BE TRAINED PER SECTION 21 OF THE PERMIT.
4.2. DATES OF TRAINING AND THE NAME AND ENTRY PRODUCTION NUMBER.
4.3. CONTENT OF TRAINING COURSE OR WORKSHOP INCLUDING THE NUMBER OF TRAINING.
5. FOLLOWING FINAL STABILIZATION AND THE TERMINATION OF COVERAGE FOR THE WPDES PERMIT, THE OWNER IS EXPECTED TO FURNISH LONG TERM OPERATION AND MAINTENANCE (O & M) OF THE PERMANENT STORM WATER MANAGEMENT SYSTEM.

CONSTRUCTION ACTIVITY REQUIREMENTS

SWPPP AMENDMENTS (SECTION 6)

- 1. ONE OF THE INDIVIDUALS DESCRIBED IN ITEM 2.1.2.2 OR ANOTHER QUALIFIED INDIVIDUAL MUST COMPLETE ALL SWPPP CHANGES, CHANGES INVOLVING THE USE OF A LESS STRINGENT BMP MUST INCLUDE A JUSTIFICATION DESCRIBING HOW THE REPLACEMENT BMP IS EFFECTIVE FOR THE SITE CHARACTERISTICS.
2. PERMITTEES MUST AMEND THE SWPPP TO INCLUDE ADDITIONAL OR MODIFIED BMPs AS NECESSARY TO CORRECT PROBLEMS IDENTIFIED AT ADDRESS SITUATIONS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION OPERATOR, MAINTENANCE, WEATHER OR REASONAL CONDITIONS HAVING A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR DRAINAGE DITCHES.
3. PERMITTEES MUST AMEND THE SWPPP TO INCLUDE ADDITIONAL OR MODIFIED BMPs AS NECESSARY TO CORRECT PROBLEMS IDENTIFIED AT ADDRESS SITUATIONS WHENEVER INSPECTIONS OR INVESTIGATIONS BY THE SITE OWNER OR OPERATOR, USEPA OR MPCA OFFICIALS INDICATE THE SWPPP IS NOT EFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR DRAINAGE DITCHES OR THE DISCHARGES ARE CAUSING WATER QUALITY STANDARDS EXCEEDANCES (E.G., NUISANCE CONDITIONS AS DEFINED IN MNPA, R. 7000.02, SUBP. 2) OR THE SWPPP IS NOT CONSISTENT WITH THE OBJECTIVES OF A USEPA APPROVED TMDL.
4. ANY SWPPP AMENDMENTS MUST BE SUBMITTED TO THE MPCA FOR REVIEW AND APPROVAL.

BMP SELECTION AND INSTALLATION (SECTION 7):

- 1. 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 ACCEPTED ENGINEERING PRACTICES.

EROSION PREVENTION (SECTION 8):

- 1. BEFORE WORK BEGINS, PERMITTEES MUST DELINEATE THE LOCATION OF AREAS NOT TO BE DISTURBED.
2. PERMITTEES MUST MINIMIZE THE NEED 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 TO PROTECT STEEP SLOPES (E.G., SLOPE PROTECTION AND TERRACING).
3. PERMITTEES MUST STABILIZE ALL EXPOSED SOIL AREAS, INCLUDING STOCKPILES. STABILIZATION MUST BE INITIATED IMMEDIATELY TO LIMIT SOIL EROSION WHEN CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY LEAVED ANY PORTION OF THE SITE AND WILL NOT RESULT FROM A PROPOSED DISCHARGE IN CALIBRATED DRAINAGE, STABILIZATION OR LANDSCAPING. STABILIZATION MUST BE COMPLETED WITHIN 14 CALENDAR DAYS AFTER THE CONSTRUCTION ACTIVITY HAS CEASED. STABILIZATION OF PAVED, PARKING LOTS AND SIMILAR SURFACES, STABILIZATION IS NOT REQUIRED ON TEMPORARY STOCKPILES WITHOUT SIGNIFICANT SILT, CLAY OR ORGANIC COMPONENTS (E.G., CLEAN AGGREGATE STOCKPILES, DEMOLITION CONCRETE STOCKPILES, SAND STOCKPILES) BUT PERMITTEES MUST PROVIDE SEDIMENT CONTROL AT THE BASE OF THE STOCKPILE.
4. FOR PAVED AREAS THAT THE MINNESOTA DNR HAS PROHIBITED WORK IN WATER RESTRICTIONS DURING SPECIFIED FRESH SPRAWING THE FRAMES, PERMITTEES MUST COMPLETE STABILIZATION OF ALL EXPOSED SOIL AREAS WITHIN 200 FEET OF THE WATER'S EDGE, AND THAT DRAINAGE DURING THE RESTRICTION PERIOD.
5. PERMITTEES MUST STABILIZE THE NORMAL WETTED PERIMETER OF THE LAST 200 LINEAR FEET OF TEMPORARY OR PERMANENT DRAINAGE DITCHES OR SWALES THAT DRAIN WATER FROM THE SITE WITHIN 14 HOURS AFTER CONNECTION TO A SURFACE WATER OR PROPERTY EDGE. PERMITTEES MUST COMPLETE STABILIZATION OF REMAINING PORTIONS OF TEMPORARY OR PERMANENT DITCHES OR SWALES WITHIN 14 CALENDAR DAYS AFTER CONNECTION TO A SURFACE WATER OR PROPERTY EDGE AND CONSTRUCTION IN THAT PORTION OF THE DITCH, TEMPORARILY OR PERMANENTLY CEASES.
6. TEMPORARY OR PERMANENT DITCHES OR SWALES BEING USED AS A SEDIMENT CONTAINMENT SYSTEM DURING CONSTRUCTION (WITH PROPERLY DESIGNED ROCK-OTON CHECKS, BOLLARDS, SILT DOWLS, ETC.) DO NOT NEED TO BE STABILIZED. PERMITTEES MUST STABILIZE THESE AREAS WITHIN 14 HOURS AFTER THEIR USE AS A SEDIMENT CONTAINMENT SYSTEM CEASES.
7. PERMITTEES MUST NOT USE MULCH, HYDROMULCH, TOPDRESS, POLYDRAP/LAISE OR SIMILAR EROSION PREVENTION PRACTICES WITHIN ANY PORTION OF THE NORMAL WETTED PERIMETER OF A TEMPORARY OR PERMANENT DRAINAGE DITCH OR SWALE SECTION WITH A CONTINUOUS SLOPE OF GREATER THAN 1 PERCENT.
8. PERMITTEES MUST PROVIDE TEMPORARY OR PERMANENT BUFFER ZONES WITHIN 20 HOURS AFTER CONNECTION TO A SURFACE WATER OR PERMANENT STORMWATER TREATMENT SYSTEM.
9. PERMITTEES MUST NOT DISTURB WORMS (I.E., PHASING) THAT CAN BE EFFECTIVELY INSPECTED AND MAINTAINED IN ACCORDANCE WITH SECTION 11.

SEDIMENT CONTROL (SECTION 9):

- 1. PERMITTEES MUST ESTABLISH SEDIMENT CONTROL BMPs ON ALL DOWNGRADING PORTIONS OF THE SITE AND DOWNGRADING AREAS OF THE SITE THAT DRAIN TO ANY SURFACE WATER, INCLUDING CURBS AND GUTTER IN URBAN. PERMITTEES MUST LOCATE SEDIMENT CONTROL PRACTICES UPSTREAM OF ANY SUCH FLOW. PERMITTEES MUST INSTALL SEDIMENT CONTROL PRACTICES BEFORE ANY UPSTREAM LAND-USE/STURBING ACTIVITIES BEGIN AND MUST KEEP THE SEDIMENT CONTROL PRACTICES IN PLACE UNTIL THEY ESTABLISH PERMANENT COVER.
2. FOR DOWNGRADING SEDIMENT CONTROLS ARE OVERLOADED, BASED ON FREQUENT FAILURE OR EXCESSIVE MAINTENANCE REQUIREMENTS, PERMITTEES MUST INSTALL ADDITIONAL UPSTREAM SEDIMENT CONTROL PRACTICES OR RELOCATE BMPs TO ELIMINATE THE OVERLOADING AND MUST KEEP THE BMPs IN PLACE TO CORRECT THESE ADDITIONAL PRACTICES AS REQUIRED IN ITEM 6.
3. TEMPORARY OR PERMANENT DRAINAGE DITCHES AND SEDIMENT BASINS DESIGNED AS PART OF A SEDIMENT CONTAINMENT SYSTEM (E.G., DITCHES WITH ROCK-CHECK DAMS) REQUIRE SEDIMENT CONTROL PRACTICES ONLY AS APPROPRIATE FOR SITE CONDITIONS.
4. A FLOODING SILT CURTAIN PLACED IN THE WATER IS NOT A SEDIMENT CONTROL BMP TO SATISFY ITEM 8.2 EXCEPT WHEN WORKING ON A SHORLINE OR BELOW THE WATERLINE, IMMEDIATELY AFTER THE SHORT TERM CONSTRUCTION ACTIVITY (E.G., INSTALLATION OF RIP RAP ALONG THE SH-REDLINE) IN THAT AREA IS COMPLETE. PERMITTEES MUST INSTALL AN UP-DRAIN PERIMETER CONTROL PRACTICE P EXPOSED SOILS SILT DRAIN TO A SURFACE WATER.
5. PERMITTEES MUST REINSTALL ALL SEDIMENT CONTROL PRACTICES ADJUSTED OR REMOVED TO ACCOMMODATE SHORT-TERM ACTIVITIES SUCH AS CLEANING OR GRUBBING, OR PASSAGE OF VEHICLES IMMEDIATELY AFTER THE SHORT-TERM ACTIVITY IS COMPLETE. PERMITTEES MUST REINSTALL SEDIMENT CONTROL PRACTICES BEFORE THE NEXT PRECIPITATION EVENT OR BEFORE THE SHORT-TERM ACTIVITY IS COMPLETE.
6. PERMITTEES MUST PROTECT ALL STORM DRAIN INLETS USING APPROPRIATE BMPs DURING CONSTRUCTION UNTIL THEY ESTABLISH PERMANENT COVER ON ALL WITH POTENTIAL FOR DISCHARGING TO THE INLET.
7. 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/TOWN/SUBURBAN MINNESOTA DEPARTMENT OF TRANSPORTATION/ENGINEER). PERMITTEES MUST DOCUMENT THE NEED FOR REMOVAL OF THE SWPPP.
8. PERMITTEES MUST PROVIDE SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROL AT THE BASE OF STOCKPILES ON THE DOWNGRADING PERIMETER.
9. PERMITTEES MUST LOCATE STOCKPILES OUTSIDE OF NATURAL BUFFERS OR SURFACE WATERS, INCLUDING STORMWATER CONVEYANCES SUCH AS CURBS AND GUTTER SYSTEMS UNLESS THERE IS A BYPASS IN PLACE FOR THE STOCKPILE.
10. 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.
11. PERMITTEES MUST USE STREET SWEEPING IF VEHICLE TRACKING BMPs ARE NOT ADEQUATE TO PREVENT SEDIMENT TRACKING ONTO THE STREET.
12. PERMITTEES MUST INSTALL TEMPORARY SEDIMENT BASINS AS REQUIRED IN SECTION 14.
13. IN ANY AREAS OF THE SITE WHERE FRUIT VEGETATIVE STABILIZATION WILL OCCUR, PERMITTEES MUST RESTRICT VEHICLE AND EQUIPMENT USE TO MINIMIZE SOIL COMPACTION.
14. PERMITTEES MUST PRESEED TOPSOIL ON THE SITE, UNLESS FEASIBLE.
15. PERMITTEES MUST DIRECT DISCHARGES FROM BMPs TO VEGETATED AREAS UNLESS INFEASIBLE.
16. PERMITTEES MUST PRESEED A 1 FOOT NATURAL BUFFER OR, IF A BUFFER IS INFEASIBLE, ON THE SITE. PROVIDE REDUCED/NO DOUBLE PERIMETER SEDIMENT CONTROLS WHEN A SURFACE WATER IS LOCATED WITHIN 10 FEET OF THE PROJECT'S BATHING/RESTRICTION FLOW TO SURFACE WATER. PERMITTEES MUST INSTALL PERIMETER SEDIMENT CONTROLS AT LEAST 5 FEET APART UNLESS LIMITED BY LACK OF AVAILABLE SPACE. NATURAL BUFFERS ARE NOT REQUIRED ADJACENT TO ROAD DITCHES, JUDICIAL DITCHES, COUNTY DITCHES, WATER CONVEYANCE OWNERS, STORM DRAIN INLETS, AND SEDIMENT BASINS. IF PRESEEDING THE BUFFER IS INFEASIBLE, PERMITTEES MUST DOCUMENT THE REASONS IN THE SWPPP. SHEET TRENCHING A REDUCED/NO PERIMETER CONTROL IS INSTALLED IN A MANNER THAT RETAINS ALL STORMWATER.
17. PERMITTEES MUST USE POLYBARS, ACCUMULATORS, OR OTHER SEDIMENTATION TREATMENT CHEMICALS IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES, DESIGN SPECIFICATIONS AND SEDIMENT REMOVAL DESIGN SPECIFICATIONS PROVIDED BY THE MANUFACTURER OR SUPPLIER. THE PERMITTEES MUST USE CONVENTIONAL EROSION AND SEDIMENT CONTROLS PRIOR TO CHEMICAL ADDITION AND MUST DIRECT TREATED STORMWATER TO A SEDIMENT CONTROL SYSTEM FOR FILTRATION OR SETTLEMENT OF THE FLOC PRIOR TO DISCHARGE.

DEWATERING AND BASIN DRAINING (SECTION 10):

- 1. PERMITTEES MUST DISCHARGE TREATED OR SEDIMENT-LADEN WATERS RELATED TO DEWATERING OR BASIN DRAINING (E.G., PAVED DISCHARGE, TRENCH/CUTS FOR DRAINAGE) TO A TEMPORARY OR PERMANENT SEDIMENT BASIN ON THE PROJECT SITE UNLESS INFEASIBLE. PERMITTEES MAY DRAINER TO SURFACE WATERS IF THEY VISUALLY CHECK TO ENSURE ADEQUATE TREATMENT HAS BEEN OBTAINED AND NUISANCE CONDITIONS (SEE MNPA, R. 7000.02, SUBP. 2) WILL NOT RESULT FROM THE DISCHARGE. IF PERMITTEES CANNOT DISCHARGE THE WATER TO A SEDIMENTATION BASIN PRIOR TO ENTERING A SURFACE WATER, PERMITTEES MUST TREAT IT WITH APPROPRIATE BMPs SUCH THAT THE DISCHARGE DOES NOT ADVERSELY AFFECT THE SURFACE WATER OR DOWNSTREAM PROPERTIES.
2. PERMITTEES MUST DISCHARGE WATER CONTAINING OIL OR GREASE, THEY MUST USE AN OIL-WATER SEPARATOR OR OILABLE FILTRATION DEVICE (E.G., CATIONIC FILTERS, ASSOCIATED'S PADS) PRIOR TO DISCHARGE.
3. PERMITTEES MUST DISCHARGE ALL WATER FROM DEWATERING OR BASIN DRAINING ACTIVITIES IN A MANNER THAT DOES NOT CAUSE EROSION OR SCOUR IN THE IMMEDIATE VICINITY OF DISCHARGE POINTS OR NEARBY WETLANDS IN THE IMMEDIATE VICINITY OF DISCHARGE POINTS THAT CAUSES SIGNIFICANT ADVERSE IMPACT TO THE WETLAND.
4. PERMITTEES MUST FILTER WITH BACKWASH WATER. THEY MUST WASH 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.

INSPECTIONS AND MAINTENANCE (SECTION 11):

- 1. PERMITTEES MUST ENSURE A TRAINED PERSON, AS DEFINED IN ITEM 2.1.2.2, 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 1/8" IN 24 HOURS.
2. PERMITTEES MUST INSPECT AND MAINTAIN ALL PERMANENT STORMWATER TREATMENT BMPs.
3. PERMITTEES MUST INSPECT ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPs AND POLLUTION PREVENTION MANAGEMENT MEASURES TO ENSURE INTEGRITY AND EFFECTIVENESS. PERMITTEES MUST REPAIR, REPLACE OR SUPPLEMENT ALL NONFUNCTIONAL BMPs WITH FUNCTIONAL BMPs BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY UNLESS ANOTHER TIME FRAME IS SPECIFIED IN ITEM 11.1.1.1.1. PERMITTEES MAY TAKE ADDITIONAL TIME IF FIELD CONDITIONS PREVENT ACCESS TO THE AREA.
4. DURING EACH INSPECTION, PERMITTEES MUST INSPECT SURFACE WATER, INCLUDING DRAINAGE DITCHES AND CONVEYANCE SYSTEMS BUT NOT CURB AND GUTTER SYSTEMS, FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION. PERMITTEES MUST REMOVE ALL DEBRIS AND SEDIMENT DEPOSITED IN SURFACE WATERS, INCLUDING DRAINAGE DITCHES, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS AND REESTABLISH THE AREAS WHERE SEDIMENT REMOVAL RESULTS IN EXPOSED SOIL. PERMITTEES MUST COMPLETE REMOVAL AND REESTABLISHMENT WITHIN SEVEN (7) CALENDAR DAYS OF DISCOVERY UNLESS PRECLUDED BY LEGAL, REGULATORY, OR PHYSICAL ACCESS CONSTRAINTS. PERMITTEES MUST USE ALL REASONABLE EFFORTS TO OBTAIN ACCESS. IF PRECLUDED, REMOVAL AND STABILIZATION MUST TAKE PLACE WITHIN SEVEN (7) DAYS OF DISCOVERY ACCESS. PERMITTEES ARE RESPONSIBLE FOR CONTACTING ALL LOCAL, REGIONAL, STATE AND FEDERAL AUTHORITIES AND RECEIVING ANY APPLICABLE PERMITS, PRIOR TO CONDUCTING ANY WORK IN SURFACE WATERS.
5. PERMITTEES MUST INSPECT CONSTRUCTION SITE VEHICLE EXIT LOCATIONS, STREETS AND CURBS 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 APPROPRIATE, WITHIN A SHORTER TIME TO AVOID A SAFETY HAZARD TO USERS OF PUBLIC STREETS.
6. 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.
7. PERMITTEES MUST DRAIN TEMPORARY AND PERMANENT SEDIMENTATION BASINS AND REMOVE THE SEDIMENT WHEN THE DEPTH OF THE SEDIMENT COLLECTED IN THE BASIN REACHES 1/2 THE STORAGE VOLUME.
8. 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 2.1.2.2.
9. PERMITTEES MAY ADJUST THE INSPECTION SCHEDULE DESCRIBED IN ITEM 11.1.2.2 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 THERE IS PERMANENT COVER ON ALL EXPOSED SOIL AND NO CONSTRUCTION ACTIVITY IS OCCURRING ANYWHERE ON THE SITE, INSPECTIONS CAN BE REDUCED TO ONCE PER MONTH AND, AFTER 12

- MONTHS, MAY BE SUSPENDED COMPLETELY UNTIL CONSTRUCTION ACTIVITY RESUMES. THE MPCA MAY REQUIRE INSPECTIONS TO RESUME IF CONDITIONS WARRANT; OR
c. WHERE CONSTRUCTION ACTIVITY HAS BEEN SUSPENDED DUE TO FROZEN GROUND CONDITIONS, INSPECTIONS MAY BE SUSPENDED. INSPECTIONS MUST RESUME WITHIN 24 HOURS OF THAWING OCCURRING, OR UPON RESUMING CONSTRUCTION, WHICHEVER COMES FIRST.
10. 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 THE INSPECTIONS;
b. NAME OF PERSONS CONDUCTING INSPECTIONS; AND
c. ACCURATE FINDINGS OF INSPECTIONS, INCLUDING THE SPECIFIC LOCATION WHERE CORRECTIVE ACTIONS ARE NEEDED, AND
d. CORRECTIVE ACTIONS TAKEN (INCLUDING DATES, TIMES, AND PARTY CONDUCTING MAINTENANCE ACTIVITIES) AND
e. DATE OF ALL RAINFALL EVENTS GREATER THAN 1/8" IN 24 HOURS, AND THE AMOUNT OF RAINFALL FOR EACH EVENT. PERMITTEES MUST OBTAIN RAINFALL AMOUNTS BY EITHER A PROPERLY MAINTAINED RAIN GAUGE INSTALLED ON-SITE, A WEATHER STATION THAT WITHIN ONE (1) MILE OF YOUR LOCATION, OR A WEATHER REPORTING SYSTEM THAT PROVIDES SITE SPECIFIC RAINFALL DATA FROM RADAR SURVEILLANCE, 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 SAND, OIL, GREASE, AND OTHER NONWATER SOLIDS OR POLLUTANTS), INCLUDING THE LOCATION OF THE DISCHARGE, 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.
11. PERMITTEES MUST MAINTAIN RECORDS OF ALL INSPECTIONS AND MAINTENANCE ACTIVITIES IN ACCORDANCE WITH THE PERMIT AND ANY APPLICABLE REGULATIONS.

POLLUTION PREVENTION MANAGEMENT (SECTION 12):

- 1. 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 OR ARE DESIGNED TO BE EXPOSED TO STORM WATER.
2. 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 WITH STORMWATER.
3. PERMITTEES MUST STORE HAZARDOUS MATERIALS AND TOXIC WASTE, INCLUDING OIL, DIESEL FUEL, GASOLINE, HYDRAULIC FLUIDS, PAINT SOLVENTS, PETROLEUM-BASED PRODUCTS, WOOD PRESERVATIVES, ADHESIVES, CURING COMPOUNDS, AND ACIDS IN SEALED CONTAINERS TO PREVENT SPILLS, LEAKS OR OTHER DISCHARGE, STORAGE AND DISPOSAL OF HAZARDOUS WASTE MATERIALS MUST BE IN COMPLIANCE WITH MNPA, R. CH. 70.01, THE INCLUDING SECONDARY CONTAINMENT AS APPLICABLE.
4. PERMITTEES MUST PROPERLY STORE, COLLECT AND DISPOSE SOLID WASTE IN COMPLIANCE WITH MNPA, R. CH. 70.03.
5. PERMITTEES MUST POSITION PORTABLE TOILETS SO THEY ARE SECURE AND WILL NOT TIP OR BE KNOCKED OVER. PERMITTEES MUST CONTAIN RUNOFF FROM THE WASHING AREA A SEEDMENT BASIN ON OTHER SIMILARLY EFFECTIVE CONTROL AND MUST DISPOSE WASTE FROM THE WASHING ACTIVITY PROPERLY. PERMITTEES MUST PROPERLY USE AND STORE SOAP, DETERGENT, OR SOLVENTS.
6. PERMITTEES MUST PROVIDE EFFECTIVE CONTAINMENT FOR ALL LIQUID AND SOLID WASTES GENERATED BY WASHOUT OPERATIONS (E.G., CONCRETE, ETC/CO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS RELATED TO THE CONSTRUCTION ACTIVITY). PERMITTEES MUST PREVENT LIQUID AND SOLID WASHOUT WASTES FROM CONTACTING THE GROUND AND MUST DESIGN THE CONTAINMENT SO IT DOES NOT RESULT IN RUNOFF FROM THE WASHOUT CONTAINMENT AREAS. PERMITTEES MUST PROPERLY DISPOSE LIQUID AND SOLID WASTES IN COMPLIANCE WITH MPCA RULES. PERMITTEES MUST INSTALL A SIGN INDICATING THE LOCATION OF THE WASHOUT FACILITY.
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4

ATTACHMENT A: SITE SPECIFIC SWPPP DOCUMENT

PROJECT NAME: APPLEWOOD OF BLAINE
PROJECT LOCATION: BRIEFLY DESCRIBE WHERE CONSTRUCTION ACTIVITY OCCURS. INCLUDE ADDRESS IF AVAILABLE.
ADDRESS: 11967 & 11965 RADISSON RD NE
CITY OR TOWNSHIP: BLAINE
STATE: MN
ZIP CODE: 55449

SOILS INFORMATION



Table with 2 columns: MAP UNIT SYMBOL, MAP UNIT NAME. Rows include: Ir ISANTI FINE SANDY LOAM, LrA LINO LOAMY FINE SAND, Ma MARNEY MUCK OCCASIONALLY FOLDED, ZrB ZIMMERMAN FINE SAND.

CUMULATIVE IMPERVIOUS SURFACE (TO THE NEAREST TENTH ACRE)

EXISTING AREA OF IMPERVIOUS SURFACE: 0.39
POST CONSTRUCTION AREA OF IMPERVIOUS SURFACE: 3.25
TOTAL NEW AREA OF IMPERVIOUS SURFACE: 2.89

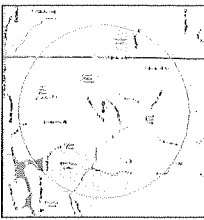
RECEIVING WATERS

Table with 5 columns: WATER BODY ID, NAME OF WATER BODY, WATER BODY TYPE, SPECIAL WATER? (Y/N), IMPAIRED WATER? (Y/N). Row 1: SUNRISE LAKE, LAKE, N, N.

DATES OF CONSTRUCTION
CONSTRUCTION START DATE: XXXX
ESTIMATED COMPLETION DATE: XXXX

GENERAL CONSTRUCTION PROJECT INFORMATION
DESCRIBE THE CONSTRUCTION ACTIVITY: DEMOLITION, GRADING, SITE WORK, UTILITIES
DESCRIBE SOIL TYPES FOUND AT THE PROJECT: MEDIUM GRAINED SAND

SITE LOCATION MAP



GENERAL SITE INFORMATION (II.A)

- 1. DESCRIBE THE LOCATION AND TYPE OF ALL TEMPORARY AND PERMANENT EROSION PREVENTION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMP'S).
2. ATTACH TO THIS SWPPP A TABLE WITH THE ANTICIPATED QUANTITIES FOR THE LIFE OF THE PROJECT FOR ALL EROSION PREVENTION AND SEDIMENT CONTROL BMP'S.
3. ATTACH TO THIS SWPPP A SITE MAP THAT INCLUDES THE FOLLOWING FEATURES:
4. IDENTIFY ADJACENT PUBLIC WATERS WHERE THE MINNESOTA DEPARTMENT OF NATURAL RESOURCES (DNR) HAS DECLARED 'WORK IN WATER RESTRICTIONS' DURING FISH SPAWNING TIME FRAMES.

SELECTION OF A PERMANENT STORMWATER MANAGEMENT SYSTEM (II.D)

- 1. WILL THE PROJECT CREATE A NEW CUMULATIVE IMPERVIOUS SURFACE GREATER THAN OR EQUAL TO ONE ACRE? YES
2. DESCRIBE WHICH METHOD WILL BE USED TO TREAT RUNOFF FROM THE NEW IMPERVIOUS SURFACES CREATED BY THE PROJECT.
3. IF IT IS NOT FEASIBLE TO MEET THE TREATMENT REQUIREMENT FOR THE WATER QUALITY VOLUME, DESCRIBE WHY. THIS CAN INCLUDE PROXIMITY TO BEDROCK OR ROAD PROJECTS WHERE THE LACK OF RIGHT OF WAY PRECLUDES THE INSTALLATION OF ANY PERMANENT STORMWATER MANAGEMENT PRACTICES.

EROSION PREVENTION PRACTICES (IV.B)

- 1. DESCRIBE CONSTRUCTION PHASIS: VEGETATIVE BUFFER STRIPS, HORIZONTAL SLOPE GRADINGS, AND OTHER CONSTRUCTION PRACTICES TO MINIMIZE EROSION.
2. DESCRIBE METHODS OF DISSIPATING VELOCITY ALONG STORMWATER CONVEYANCE CHANNELS AND AT CHANNEL OUTLETS.
3. DESCRIBE METHODS TO BE USED FOR STABILIZATION OF DITCH AND SWALE WETTED PERIMETERS.
4. DESCRIBE METHODS TO BE USED FOR ENERGY DISSIPATION AT PIPE OUTLETS.
5. DESCRIBE METHODS TO BE USED TO PROMOTE INFILTRATION AND SEDIMENT REMOVAL ON THE SITE PRIOR TO OFFSITE DISCHARGE.

SEDIMENT CONTROL PRACTICES (IV.C)

- 1. DESCRIBE METHODS TO BE USED FOR DOWN GRADIENT PERIMETER CONTROL.
2. DESCRIBE METHODS TO BE USED TO CONTROL SOIL STOCKPILES.
3. DESCRIBE METHODS TO BE USED FOR STORM DRAIN INLET PROTECTION.
4. DESCRIBE METHODS TO MINIMIZE VEHICLE TRACKING AT CONSTRUCTION EXITS AND STREET SWEEPING ACTIVITIES.
5. DESCRIBE METHODS, IF APPLICABLE, ADDITIONAL SEDIMENT CONTROLS (E.G., DIVERSION BERM) TO BE INSTALLED TO KEEP RUNOFF AWAY FROM PLANNED INFILTRATION AREAS.

DEWATERING AND BASIN DRAINING (IV.D)

- 1. WILL THE PROJECT INCLUDE DEWATERING OR BASIN DRAINING? NO
2. WILL THE PROJECT INCLUDE USE OF FILTERS FOR BACKWASH WATER? NO
3. DESCRIBE HOW FILTER BACKWASH WATER WILL BE MANAGED ON THE SITE OR PROPERLY DISPOSED.
4. DESCRIBE HOW THE PERMANENT STORMWATER MANAGEMENT SYSTEM WILL MINIMIZE ANY INCREASE IN THE TEMPERATURE OF TROUT STREAM RECEIVING WATERS.

INSPECTIONS AND MAINTENANCE (IV.E)

- 1. DESCRIBE PROCEDURES TO ROUTINELY INSPECT THE CONSTRUCTION SITE.
2. DESCRIBE PROCEDURES TO FOLLOW REQUIREMENTS SPECIFIED ABOVE AND FILL GUT AT ATTACHMENT B - CONSTRUCTION STORMWATER INSPECTION CHECKLIST.
3. DESCRIBE PRACTICES FOR STORAGE OF BUILDING PRODUCTS WITH A POTENTIAL TO LEACH POLLUTANTS TO MINIMIZE EXPOSURE TO STORMWATER.

FINAL STABILIZATION (IV.F)

- 1. DESCRIBE METHOD OF FINAL STABILIZATION (PERMANENT COVER) OF ALL DISTURBED AREAS.
2. DESCRIBE PROCEDURES FOR COMPLETING FINAL STABILIZATION AND TERMINATING PERMIT COVERAGE.

DOCUMENTATION OF FEASIBILITY, IF APPLICABLE



4931 W. 56TH ST., SUITE 200
ST. LOUIS, MO 63119
CivilSiteGroup.com
616-415-4490

PRELIMINARY:
NOT FOR
CONSTRUCTION

PROJECT: RADISSON ROAD TOWNHOMES
11967 & 11965 RADISSON RD NE, BLAINE, MN 55449
RON CLARK CONSTRUCTION
7500 WEST 78TH STREET, EDINA, MN 55438

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Paul J. Knudde
David J. Knudde
DATE: 2/2/23 LICENSE NO.: 49778

Table with 2 columns: DATE, DESCRIPTION. Rows for 1/23/23, 2/2/23, 2/2/23.

REVISION SUMMARY
DATE DESCRIPTION

Table with 2 columns: DATE, DESCRIPTION. Rows for 1/23/23, 2/2/23.

SWPPP - ATTACHMENTS

SW1.4

ATTACHMENT B: SWPPP INSPECTION FORM

NOTE: THIS INSPECTION REPORT DOES NOT ADDRESS ALL ASPECTS OF THE INITIAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STATE DISPOSAL SYSTEM (IDDES/SDDS) CONSTRUCTION, STORMWATER PERMIT (PERMIT) ISSUED ON AUGUST 1, 2018. THE COMPLETION OF THIS CHECKLIST DOES NOT GUARANTEE THAT ALL PERMIT REQUIREMENTS ARE IN COMPLIANCE. IT IS THE RESPONSIBILITY OF THE PERMITTEE(S) TO READ AND UNDERSTAND THE PERMIT REQUIREMENTS.

FACILITY INFORMATION

SITE NAME: _____ PERMIT NUMBER: _____
SITE ADDRESS: _____ CITY: _____ STATE: _____ ZIP CODE: _____

INSPECTION INFORMATION

INSPECTOR NAME: _____ PHONE NUMBER: _____
ORGANIZATION/COMPANY NAME: _____

DATE (MM/DD/YYYY): _____ TIME: _____ AM / PM
IS THE INSPECTOR CERTIFIED IN SEDIMENT AND EROSION CONTROL AND IS IT DOCUMENTED IN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP)? Y N
IS THIS INSPECTION ROUTINE OR IN RESPONSE TO A STORM EVENT? RAIN 7 DAY RAIN

RAINFALL AMOUNT (IF APPLICABLE) _____ Y N
IS THERE WITHIN ONE MILE RADIUS OF SPECIAL OR IMPAIRED WATER THAT CAN POTENTIALLY RECEIVE DISCHARGE FROM THE SITE? Y N
IF YES, FOLLOW SECTION 23 AND OTHER APPLICABLE PERMIT REQUIREMENTS

NOTE: IF 'N' IS SELECTED AT ANY TIME, SPECIFY WHY IN THE COMMENT AREA FOR THAT SECTION.

EROSION CONTROL REQUIREMENT (SECTION 6.1)

Table with 7 rows of erosion control questions and Y/N/NA columns.

COMMENTS:

SEDIMENT CONTROL REQUIREMENTS (SECTION 8.1)

Table with 9 rows of sediment control questions and Y/N/NA columns.

COMMENTS:

MAINTENANCE AND INSPECTIONS (SECTION 11)

Table with 9 rows of maintenance and inspection questions and Y/N/NA columns.

IF YES, RECORD THE LOCATION OF ALL POINTS OF DISCHARGE, PHOTOGRAPH AND DESCRIBE THE DISCHARGE (SIZE, COLOR, ODOR, FOAM, OIL SHEEN, TIME, ETC.). DESCRIBE HOW THE DISCHARGE WILL BE ADDRESSED. WAS THE DISCHARGE A SEDIMENT DELTA? IF YES, WILL THE DELTA BE RECOVERED WITHIN SEVEN DAYS AND IN ACCORDANCE WITH ITEM 11.5 OF THE PERMIT?

COMMENTS:

POLLUTION PREVENTION (SECTION 12)

Table with 7 rows of pollution prevention questions and Y/N/NA columns.

COMMENTS:

OTHER

Table with 3 rows of other questions and Y/N/NA columns.

4. WILL A PERMANENT STORMWATER MANAGEMENT SYSTEM BE CREATED FOR THIS PROJECT IF REQUIRED AND IN ACCORDANCE WITH SECTION 15 OF THE PERMIT (IF ADDING AN ACRE OR MORE OF NEW IMPERVIOUS SURFACE)? IF YES, DESCRIBE: _____

5. IF INFILTRATION/FILTRATION SYSTEMS ARE BEING CONSTRUCTED, ARE THEY MARKED AND PROTECTED FROM COMPACTION AND SEDIMENTATION? _____
6. DESCRIPTION OF AREAS OF NON-COMPLIANCE NOTED DURING THE INSPECTION, REQUIRED CORRECTIVE ACTIONS, AND RECOMMENDED DATE OF COMPLETION OF CORRECTIVE ACTIONS _____

7. PROPOSED AMENDMENTS TO THE SWPPP: _____

8. POTENTIAL AREAS OF FUTURE CONCERN: _____

9. ADDITIONAL COMMENTS: _____

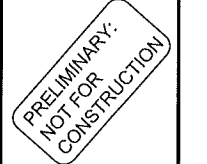
DISCLOSURES

AFTER DISCOVERY, THE PERMIT REQUIRES MANY OF THE DEFICIENCIES THAT MAY BE FOUND ON SITE BE CORRECTED WITHIN A SPECIFIED PERIOD OF TIME. SEE PERMIT FOR MORE DETAILS.
THE PERMITTEE(S) IS/ARE RESPONSIBLE FOR THE INSPECTION AND MAINTENANCE OF TEMPORARY AND PERMANENT WATER QUALITY MANAGEMENT BMPS AS WELL AS EROSION PREVENTION AND SEDIMENT CONTROL BMPS UNTIL ANOTHER PERMITTEE HAS OBTAINED COVERAGE UNDER THIS PERMIT ACCORDING TO SECTION 3, OR THE PROJECT HAS MET THE TERMINATION CONDITIONS OF THE PERMIT AND A NOTICE OF TERMINATION HAS BEEN SUBMITTED TO THE MINNESOTA POLLUTION CONTROL AGENCY.

ATTACHMENT C: MAINTENANCE PLAN FOR PERMANENT STORM WATER TREATMENT SYSTEM

ATTACHMENT C - ABOVE-GROUND FACILITY MANAGEMENT SCHEDULE

- 1. ALL STORMWATER RETENTION, DETENTION AND TREATMENT BASINS MUST BE INSPECTED AT LEAST ONCE A YEAR TO DETERMINE THAT BASIN RETENTION AND TREATMENT CHARACTERISTICS ARE ADEQUATE. A STORAGE TREATMENT BASIN WILL BE CONSIDERED INADEQUATE IF SEDIMENT HAS DECREASED THE WET STORAGE VOLUME BY 50 PERCENT OR DRY STORAGE VOLUME BY 25 PERCENT OF ITS ORIGINAL DESIGN VOLUME.
2. ALL OUTLET STRUCTURES, CULVERTS, OUTFALL STRUCTURES AND OTHER STORMWATER FACILITIES FOR WHICH MAINTENANCE REQUIREMENTS ARE NOT OTHERWISE SPECIFIED HEREIN MUST BE INSPECTED IN THE SPRING, SUMMER AND FALL OF EACH YEAR.
3. VOLUME CONTROL FACILITIES AND CONTRIBUTING DRAINAGE AREAS MUST BE INSPECTED EVERY THREE MONTHS DURING THE OPERATIONAL PERIOD (BETWEEN SPRING SNOWMELT AND FIRST SUBSTANTIAL SNOWFALL) AND MONITORED AFTER RAINFALL EVENTS OF 1 INCH OR MORE TO ENSURE THAT THE CONTRIBUTING DRAINAGE AREA IS CLEAR OF LITTER AND DEBRIS, INFLOW PIPES AND OVERFLOW STILLWAYS ARE CLEAR, INLET AREAS ARE CLEAR, UNDESIRABLE VEGETATION IS REMOVED AND THERE IS NO EROSION IMPAIRING OR THREATENING TO IMPAIR THE FUNCTION OF A FACILITY.



PROJECT: RADISSON ROAD TOWNHOMES
11967 & 11985 RADISSON RD NE, BLAINE, MN 55449
RON CLARK CONSTRUCTION
7500 WEST 70TH STREET, EDINA, MN 55439

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

David J. Knable
Lic. No. 49776
DATE: 2/2/23

ISSUE/SUBMITTAL SUMMARY

Table with columns for DATE, DESCRIPTION, and STATUS.

REVISION SUMMARY

Table with columns for DATE, DESCRIPTION, and STATUS.

SWPPP - ATTACHMENTS

SW1.5

Certificate Of Completion

Envelope Id: A8DEE5EB728340D59F0DF51CA9FCE702	Status: Sent
Subject: Complete with DocuSign: Anoka County ROW Permit Application	
Source Envelope:	
Document Pages: 28	Signatures: 1
Certificate Pages: 4	Initials: 1
AutoNav: Enabled	Envelope Originator:
Envelopeld Stamping: Enabled	Highway Permits
Time Zone: (UTC-06:00) Central Time (US & Canada)	Anoka County Government Center
	2100 3rd Avenue
	Anoka, MN 55303
	HighwayPermits@co.anoka.mn.us
	IP Address: 216.206.50.82

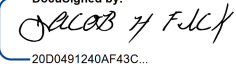
Record Tracking

Status: Original	Holder: Highway Permits	Location: DocuSign
4/4/2023 1:40:41 PM	HighwayPermits@co.anoka.mn.us	
Security Appliance Status: Connected	Pool: StateLocal	
Storage Appliance Status: Connected	Pool: Anoka County	Location: DocuSign

Signer Events

JACOB H FICK
 jacobf@enebak.com
 Security Level:
 DocuSign.email
 ID: 1
 4/4/2023 1:40:43 PM

Signature

DocuSigned by:

 20D0491240AF43C...
 Signature Adoption: Pre-selected Style
 Using IP Address: 216.206.50.82

Timestamp

Sent: 4/4/2023 1:40:42 PM
 Viewed: 4/4/2023 1:40:54 PM
 Signed: 4/4/2023 2:13:49 PM

Electronic Record and Signature Disclosure:

Accepted: 4/4/2023 1:40:54 PM
 ID: 0fe5c53c-b879-4455-97d0-80f8081f1994

Highway Permits Sent: 4/4/2023 2:13:52 PM

Traffic Technician
 Anoka County
 Signing Group: Highway Permits
 Security Level: Email, Account Authentication (Optional)

Electronic Record and Signature Disclosure:

Not Offered via DocuSign

In Person Signer Events	Signature	Timestamp
Editor Delivery Events	Status	Timestamp
Agent Delivery Events	Status	Timestamp
Intermediary Delivery Events	Status	Timestamp
Certified Delivery Events	Status	Timestamp
Carbon Copy Events	Status	Timestamp
Witness Events	Signature	Timestamp
Notary Events	Signature	Timestamp
Envelope Summary Events	Status	Timestamps

Envelope Summary Events	Status	Timestamps
Envelope Sent	Hashed/Encrypted	4/4/2023 1:40:42 PM
Payment Events	Status	Timestamps
Electronic Record and Signature Disclosure		

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If you decide to receive notices, disclosures and documents from us electronically, you may change your mind and tell us that going forward you want to receive documents only in paper format. Please note, processing time will be slowed down dramatically as we will be required to print and send the document through the mail and await your return of the documents. The process to change the method of receipt is described below.

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You may change your preferred method of contact whether electronically, or paper copies, or change your email address. You may also request paper copies of certain information from us, or withdraw your prior consent to receive documents. Please use the contact information below for your request and in the body of your correspondence, identify your desired action. If you are

changing an email address, please include your prior email address as well as your new address. If you no longer wish to receive future documents in electronic format, please include that request in the body of your email.

Email: helpdesk@co.anoka.mn.us
Phone: (763)-324-4110
Address: Anoka County Government Center
Attn: Information Technology, #300
2100 3rd Avenue
Anoka, MN 55303

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