

Riley Purgatory Bluff Creek Watershed District Permit Application Review

Permit No: 2024-018

Considered at Board of Managers Meeting: June 5, 2024

Received complete: April 30, 2024

Applicant: City of Eden Prairie

Consultant: ISG, Andrea Rand

Project: Miller Park Outdoor Courts – The proposed project includes the reconstruction of the sidewalk, basketball courts, and tennis courts, and the addition of pickleball courts. The applicant proposes two infiltration basins and a new storm sewer system to provide stormwater rate control, volume abstraction, and water quality control.

Location: Miller Park, Eden Prairie, Minnesota

Reviewer: Annie Brunton, EIT and Scott Sobiech, PE, Barr Engineering

Proposed Board Action

Manager _____ moved and Manager _____ seconded adoption of the following resolutions based on the permit report that follows and the presentation of the matter at the June 5, 2024 meeting of the managers. Resolved that the application for Permit 2024-018 is approved, subject to the conditions and stipulations set forth in the Recommendations section of the attached report;

Resolved that on determination by the RPBCWD administrator that the conditions of approval have been affirmatively resolved, the RPBCWD president or administrator is authorized and directed to sign and deliver Permit 2024-018 to the applicant on behalf of RPBCWD.

Upon vote, the resolutions were adopted, _____ [VOTE TALLY].

Rule Conformance Summary

Rule	Issue	Conforms to RBPCWD Rules?	Comments	
C	Erosion Control Plan	Yes		
D	Wetland and Creek Buffer	Yes	Wetland buffer established for Permit 2016-006 is applicable for this permit	
J	Stormwater Management	Rate	Yes	
		Volume	See Comment	See stipulation #4 related in infiltration testing during construction.
		Water Quality	Yes	
		Low Floor Elev.	NA	
		Maintenance	Yes	
		Chloride Management	Yes	
		Wetland Protection	Yes	

Rule	Issue	Conforms to RBPCWD Rules?	Comments
L	Permit Fee	Not Applicable	Governmental Entity
M	Financial Assurance	Not Applicable	Governmental Entity

Project Background

The proposed area of disturbance in Miller Park currently contains two tennis courts, a basketball court, and connecting sidewalks to the adjacent parking lot. The proposed reconstruction plan will include eight pickleball courts, a tennis court, a basketball court, and modifications to sidewalks, gathering spaces, underground utilities, and stormwater management. The City of Eden Prairie proposes to construct two infiltration basins to provide rate control, volume abstraction, and water quality control. Because the city has undertaken three prior redevelopment projects triggering the RPBCWD stormwater requirements since January 1, 2015 (i.e., when RPBCWD reinstated a regulatory program) in the park, the presently proposed redevelopment must be analyzed in aggregate with prior changes under the common scheme of development provision of Rule J. Relevant project site information is provided below.

Site Information	Permit 2015-038	Permit 2016-006	Permit 2018-013	Permit 2024-018 (Current)	Site Aggregate Total (Includes Four Projects)
Total Site Area (acres)	90.64	90.64	90.64	90.64	90.64
Existing (baseline) Site Impervious Area (acres)	19.11	19.11	19.11	19.11	19.11
New (increase) in Site Impervious Area (acres)	-0.1	0.0	0.0	0.28	0.18
Percent Increase in Impervious Surface	-0.5%	0.0%	0.0%	1.4%	0.9%
Disturbed Site Impervious Area (acres)	0.15	0.0	0.01	0.64	0.8
Percent Disturbance of Existing Impervious Surface	0.8%	0.0%	0.0%	4.5%	5.3% ¹
Exempt Rehabilitated Impervious Surface and sidewalks (acres)	0	0	0.01	0.1	0.11
Regulated Impervious Surface (acres)	0.15	0	0	0.82	0.97
Total Disturbed Area (acres)	0.8	2.91	2.8	1.39	7.9

¹Calculated based on pre-2015 project existing conditions (Common Scheme of Development Rule J, Subsection 2.5)

Exhibits:

1. Permit Application received March 20, 2024 (applicant was notified of an incomplete application on April 5, 2024; information completing the application was received on April 30, 2024)
2. Stormwater Management Report narrative dated March 20, 2024 (revisions dated April 30, 2024 and May 21, 2024)
3. Geotechnical Report by Element Materials Technology St Paul Inc. dated April 25, 2022
4. Infiltration Testing by Braun Intertec dated March 20, 2024
5. Existing and Proposed Conditions HydroCAD Model for 2-, 10-, and 100-year, and 100-year snowmelt events received March 20, 2024 (revisions submitted April 30, 2024 and May 23, 2024)
6. Existing and Proposed MIDS models received April 30, 2024 (revised May 23, 2024)
7. Civil Plans Set received March 20, 2024 (revisions dated April 30, 2024 and May 23, 2024)
8. Response to Comments dated April 30, 2024
9. Response to Comments dated May 23, 2024

Rule Specific Permit Conditions

Rule C: Erosion and Sediment Control

Because the project will involve 1.39 acres of land-disturbing activities, the applicant must submit and erosion- and sediment-control plan conforming to the requirements in the RPBCWD Erosion and Sediment Control rule (Rule C, Subsection 2.1).

The erosion control/turf restoration plan includes installation of perimeter control, rock construction entrance, turf establishment, inlet protection, culvert protection, erosion control blanket, daily inspection, placement of a minimum of 6 inches of topsoil with 5 percent organic matter, minimization of compaction during construction, and retention of native topsoil onsite. The applicant identified Amy Markle (amarkle@edenprairie.org; PH. 952.949.8440) as the person responsible for erosion prevention and sediment control during construction.

Because the plans show the proposed storm sewer discharging runoff on a slope above the wetland the following revision is needed to conform to RPBCWD Rule C requirements:

- C1. Permit applicant must provide erosion mitigation measures at the storm sewer outfall location upgradient from the wetland, or demonstrate the discharge will not cause erosion between the discharge location and wetland.

Rule D: Wetland and Creek Buffers

Because the proposed work triggers the requirements of Rule J (see below) and is upstream of a Wetland Conservation Act (WCA) regulated wetland, Rule D, Subsections 2.1a and 3.1b require buffer on

the wetland edge of this wetland downgradient from the land-disturbing activities. The wetland is not disturbed by the proposed work.

For Permit 2016-006 (reconstruction of soccer field #10 at Miller Park), the applicant provided a wetland delineation report, including type and boundary determination, based on a field investigation conducted on April 14, 2016. The wetland delineation report identified a shallow, open water community wetland downgradient from the proposed project area based on a field delineation. A MnRAM for the site was completed and submitted on May 5, 2016, and the wetland value was determined to be low based on the functions and values analysis submitted compared to the information in appendix D1. RPBCWD staff recently conducted a MNRAM for the wetland as part of the district-wide wetland assessment effort and determined the wetland to be medium value compared to the information in appendix D1. Rule D, Subsection 3.2.b.ii requires medium value wetland buffer with an average of 40 feet from the delineated edge of the wetland, minimum 20 feet; in addition, the proposed buffer area intersects steep slopes, triggering the requirement under subsection 3.2.c of the rule that the buffer extend to the top of such slopes. To comply with the permit 2016-006 requirements, the city established wetland buffers for the wetland that extend to the top of the steep slopes, conforming to the criteria in Rule D, Subsection 3.2.b.iii and 3.2.c for medium value wetlands and steep slopes.

RPBCWD Wetland Value	Required Minimum Width (ft)	Required Average Width (ft)	Required Area (sq ft)	Provided Area (sq ft)	Provided Minimum Width (ft)	Provided Average Width (ft)
Medium	20	40	58,582	65,631	21	44.8

The applicant installed buffer monument locations consistent with criteria in Rule D, Subsection 3.4 in 2016. Because no new buffer area need be establish and the buffer areas are established and well maintained, Rule D, Subsection 3.5, imposes no requirements on the present project. The buffer areas and maintenance requirements that were documented in a written agreement with RPBCWD in 2016 were determined to achieve compliance for this project. The proposed project conforms to the wetland buffer requirements of Rule D.

Rule J: Stormwater Management

Because the project will involve 1.39 acres of land-disturbing activity (i.e., more than 5,000 square feet), the applicant must provide a stormwater-management plan meeting the criteria of RPBCWD’s Stormwater Management rule (Rule J). Under paragraph 2.5 of Rule J, Common Scheme of Development, activities subject to Rule J on a parcel or adjacent parcels under common or related ownership will be considered in the aggregate, and the requirements applicable to the activity under this rule will be determined with respect to all redevelopment that has occurred on the site and on adjacent sites under common or related ownership since the date this rule took effect (January 1, 2015). Because three projects have been permitted and constructed since the rules took effect (RPBCWD Permit 2015-038, 2016-006, and 2018-013), the current activities proposed must be considered in aggregate with the activities proposed under the prior applications.

The criteria listed in Subsection 3.1 only apply to the disturbed areas on the project site because the project, when considered in aggregate with the other permitted activities at the site, increases the imperviousness by 0.9 percent and disturbs a combined 5.3 percent of the existing impervious surface on the site (Rule J, Subsection 2.3) (see project site information table above). Because the aggregate extent of disturbance is less than 50 percent of the impervious area of the site, and the four projects, in aggregate, expand the impervious area of the site by less than 50 percent, RPBCWD’s stormwater management requirements apply only to the increased and disturbed and reconstructed impervious areas of the site proposed for this project.

The applicant is proposing construction of two infiltration basins to provide the rate control, volume abstraction, and water quality management.

Rate Control

In order to meet the rate control criteria listed in Subsection 3.1.a, the 2-, 10-, and 100-year post-development peak runoff rates must be equal to or less than the existing discharge rates at all locations where stormwater leaves the site.

The applicant used HydroCAD to simulate runoff rates for pre- and post-development conditions for the 2-, 10-, and 100-year frequency storm events using a nested rainfall distribution, and a 100-year frequency, 10-day snowmelt event. The existing and proposed 2-, 10-, and 100-year frequency discharges from the site are summarized in the following table . The proposed project is in conformance with RPBCWD Rule J, Subsection 3.1.a.

Rate control summary

Modeled Discharge Location	2-Year Discharge (cfs)		10-Year Discharge (cfs)		100-Year Discharge (cfs)		10-Day Snowmelt (cfs)	
	Ex	Prop	Ex	Prop	Ex	Prop	Ex	Prop
Wetland East of site	2.1	0.3	4.3	0.6	9.7	4.7	1.7	1.5

Volume Abstraction

Subsection 3.1b of Rule J requires the abstraction onsite of 1.1 inches of runoff from the regulated impervious surface of the site. An abstraction volume of 3,274 cubic feet is required from the 0.82 acres of regulated impervious area. Plans indicate pretreatment for runoff entering the infiltration basins is provided by a grassed filter strip, thus the proposed project conforms with RPBCWD Rule J, Subsection 3.1b.1.

Soil information from borings performed by Element Materials Technology show that soils in the project area are primarily lean clay and sandy lean clay (CL) underlain with sand with silt (SP-SM), sandy lean clay (CL), and silty sand (SM). The subsurface investigation information summarized in the table below

shows that groundwater is at least 3 feet below the bottom of the proposed infiltration basin (Rule J, Subsection 3.1.b.2.a).

Groundwater separation summary

Proposed BMP	Nearest Subsurface Investigation	Boring is within footprint?	Groundwater Elevation (feet)	BMP Bottom Elevation (feet)	Separation (feet)
West infiltration basin	SB-1	Yes	Redoximorphic soils observed at 874	878.3	4.3
East infiltration basin	SB-3	Yes	Redoximorphic soils observed at 875	878.0	3.0

The engineer concurs with the applicant’s design infiltration rates of 0.4 inches per hour for sand and silty sand based on the guidelines provided in the MN Stormwater Manual and the results of the Braun Intertec Double-Ring Infiltrometer Testing in the surface soils at the site. Based on the design infiltration rate, the engineer concurs that the basins will draw down within 48 hours (Rule J, subsection 3.1b.3). The design infiltration rate was confirmed as a result of infiltration tests performed by Braun Intertec.

Per Rule J, Subsection 3.1.b.2.c measured infiltration capacity of the soils at the bottom of the infiltration systems must be provided. The applicant must submit documentation verifying the infiltration capacity of the soils and that the volume control capacity is calculated using the measured infiltration rate. If infiltration capacity is less than needed to conform with the volume abstraction requirement in subsection 3.2 or there is inadequate separation to groundwater, design modifications to achieve compliance with RPBCWD requirements will need to be submitted (in the form of an application for a permit modification or new permit).

The table below summarizes the volume abstraction required and the volume abstraction achieved by the proposed stormwater management facilities on site. The engineer concurs with the submitted information and finds that the proposed project will conform with Rule J, Subsection 3.1.b.

	Abstraction Depth (inches)	Abstraction Volume (cubic feet)
Requirement	1.1	3,274
Provided	1.14	3,414

Water Quality Management

Subsection 3.1.c of Rule J requires the Applicant to provide for at least 60 percent annual removal efficiency for total phosphorus (TP), and at least 90 percent annual removal efficiency for total suspended solids (TSS), as well as no net increase in pollutant loading from existing conditions.

The applicant submitted MIDS models to estimate the TP and TSS loading from the watersheds and the removal capacity of the proposed BMPs. The results of this modeling are summarized in the tables below. The results show the proposed project will remove sufficient TSS and TP to achieve an overall pollutant reduction in accordance with the required annual removals (Rule J, Subsection 3.2c).

Annual TSS and TP removal summary

Pollutant of Interest	Regulated Site Loading (lbs/yr)	Required Load Removal (lbs/yr) ¹	Provided Load Reduction (lbs/yr)
Total Suspended Solids (TSS)	324	292 (90%)	292(90%)
Total Phosphorus (TP)	1.78	1.07 (60%)	1.61 (90%)

¹Required load reduction is calculated based on the criteria in Rule J, Subsection 3.1c and the new and reconstructed impervious area site loading.

Summary of net change in TSS and TP leaving the site

Pollutant of Interest	Existing Loading (lbs/yr)	Proposed Load after Treatment (lbs/yr)	Change (lbs/yr)
Total Suspended Solids (TSS)	256.8	32.5	-224.3
Total Phosphorus (TP)	1.41	0.18	-1.23

Low floor Elevation

No structure may be constructed or reconstructed such that its lowest floor elevation is less than 2 feet above the 100-year event flood elevation according to Rule J, Subsection 3.6a. In addition, a stormwater-management facility must be constructed at an elevation that ensures that no adjacent habitable building will be brought into noncompliance with a standard in this subsection 3.6b. Because the applicant does not propose to construct or reconstruct structures that have low-floor elevations nor are there adjacent habitable buildings, subsections 3.6a and 3.6b do not impose requirements on the project.

Maintenance

Subsection 3.7 of Rule J requires the submission of maintenance plan. All stormwater management structures and facilities must be designed for maintenance access and properly maintained in perpetuity to assure that they continue to function as designed. RPBCWD and Eden Prairie have entered into a programmatic maintenance agreement covering city projects subject to RPBCWD regulatory requirements. The stormwater management facilities associated with this permit (2024-018) must be incorporated into the inventory of those managed in accordance with the programmatic agreement as a condition of approval.

Chloride Management

Subsection 3.8 of Rule J requires the submission of chloride management plan that designates the individual authorized to implement the chloride management plan and the MPCA-certified salt applicator engaged in implementing the plan. The City of Eden Prairie’s Streets Division Manager, Larry Doig, is authorized to implement the City’s chloride management plan and documentation provided

confirms he is certified by the Minnesota Pollution Control Agency as a certified salt applicator (Rule J, subsection 3.8).

Wetland Protection

Because the proposed activities discharge to a downstream, on-site protected wetland, the proposed activities must conform to RPBCWD wetland protection criteria (Rule J, subsection 3.10). The off-site wetland is medium value. Because the applicant's HydroCAD model results demonstrate, and the engineer concurs, that the proposed flow rate and volumes flowing towards the off-site wetland are less than the under existing conditions, the bounce and inundation will not increase, thus the project meets the Bounce and Inundation criterion.

Rule J, Subsection 3.10b requires that treatment of runoff to medium value wetlands achieve 90 percent total suspended solids removal and 60 percent total phosphorus removal. P8 modeling results show the proposed stormwater management facilities provides 90% TSS and 90% TP removals, thus the engineer finds that the proposed project is in conformance with Rule J, Subsection 3.10b.

Applicable General Requirements:

1. The RPBCWD Administrator and Engineer shall be notified at least three days prior to commencement of work.
2. Construction shall be consistent with the plans and specifications approved by the District as a part of the permitting process. The date of the approved plans and specifications is listed on the permit.
3. Construction must be consistent with the plans, specifications, and models that were submitted by the applicant that were the basis of permit approval. The date(s) of the approved plans, specifications, and modeling are listed above and on the permit. The granting of the permit does not in any way relieve the permittee, its engineer, or other professional consultants of responsibility for the permitted work.
4. The grant of the permit does not relieve the permittee of any responsibility to obtain approval of any other regulatory body with authority.
5. The issuance of this permit does not convey any rights to either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.
6. In all cases where the doing by the permittee of anything authorized by this permit involves the taking, using or damaging of any property, rights or interests of any other person or persons, or of any publicly owned lands or improvements or interests, the permittee, before proceeding therewith, must acquire all necessary property rights and interest.
7. RPBCWD's determination to issue this permit was made in reliance on the information provided by the applicant. Any substantive change in the work affecting the nature and extent of applicability of RPBCWD regulatory requirements or substantive changes in the methods or

means of compliance with RPBCWD regulatory requirements must be the subject of an application for a permit modification to the RPBCWD.

8. If the conditions herein are met and the permit is issued by RPBCWD, the applicant, by accepting the permit, grants access to the site of the work at all reasonable times during and after construction to authorized representatives of the RPBCWD for inspection of the work.

Findings

1. The proposed project includes the information necessary, plan sheets and erosion control plan for review.
2. The proposed project conforms to Rules C and D.
3. The proposed project will conform to Rule J if the conditions listed above are met.

Recommendation:

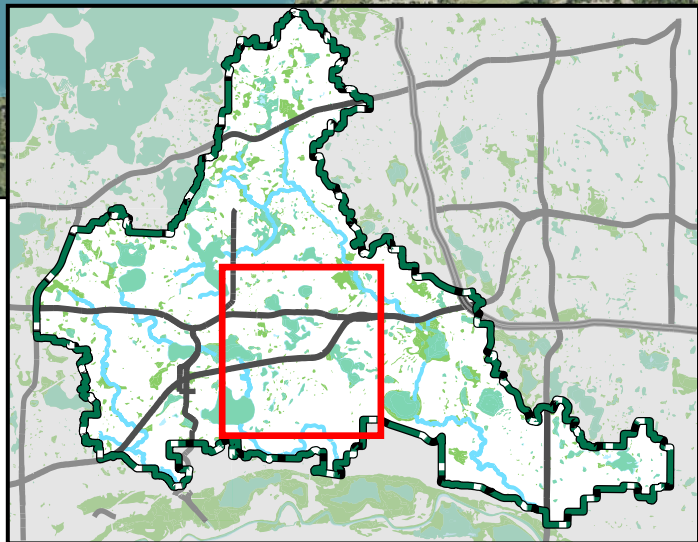
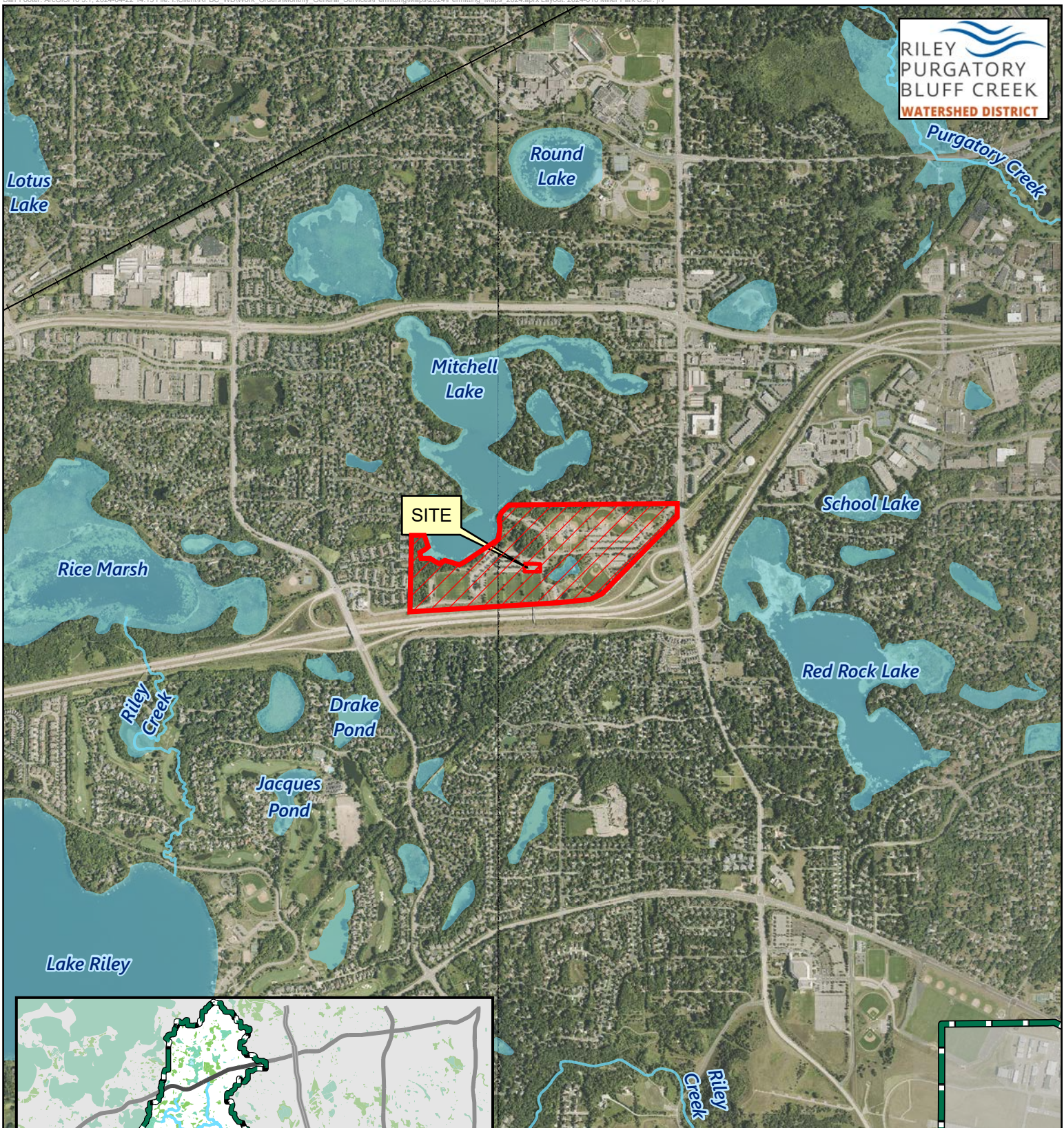
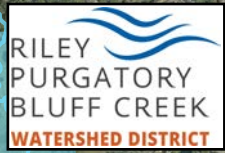
Approval of the permit contingent upon:

1. Receipt of updated plans with erosion mitigation measures at the storm sewer outfall location upgradient from the wetland, or information demonstrating the discharge will not cause erosion between the discharge location and wetland.
2. Because RPBCWD and Eden Prairie have entered into a programmatic maintenance agreement covering typical city projects, the stormwater management facilities associated with this permit (2024-018) must be incorporated into the inventory of those managed in accordance with the programmatic agreement.

By accepting the permit, when issued, the applicant agrees to the following stipulations:

1. Continued compliance with General Requirements.
2. Per Rule J Subsection 5.6, upon completion of the site work, the permittee must submit as-built drawings demonstrating that at the time of final stabilization the stormwater management facilities conform to design specifications and functions as intended and approved by the District. As-built/record drawings must be signed by a professional engineer licensed in Minnesota and include, but not limited to:
 - a) the surveyed bottom elevations, water levels, and general topography of all facilities;
 - b) the size, type, and surveyed invert elevations of all stormwater facility inlets and outlets;
 - c) the surveyed elevations of all emergency overflows including stormwater facility, street, and other;
 - d) other important features to show that the project was constructed as approved by the Managers and protects the public health, welfare, and safety.
3. Providing the following additional close-out materials:
 - a) Documentation that constructed stormwater facilities perform as designed. This may include infiltration testing, flood testing, or other with prior approval from RPBCWD

- b) Documentation that disturbed pervious areas remaining pervious have been decompacted per Rule C Subsection 3.2c criteria.
4. Per Rule J, Subsection 3.1.b.ii measured infiltration capacity of the soils at the bottom of the infiltration BMPs must be provided. The applicant must submit documentation verifying the infiltration capacity of the soils and that the volume control capacity is calculated using the measured infiltration rate. In addition, subsurface soil investigation is needed to verify adequate separation to groundwater (Rule J subsection 3.1.b.2). If infiltration capacity is less than needed to conform with the volume abstraction requirement in subsection 3.3b or there is inadequate separation to groundwater, design modifications to achieve compliance with RPBCWD requirements will need to be submitted (in the form of an application for a permit modification or new permit).



Feet



Permit Location Map

MILLER PARK

Permit 2024-018

Riley Purgatory Bluff Creek
Watershed District



NOTE: THE CLARITY OF THESE PLANS DEPENDS ON THE QUALITY OF THE ORIGINAL PLAN SET, AND MAY RESULT IN UNUSUAL INTERPRETATION.

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

DATE: _____
 BY: _____
 LICENSE NO.: _____

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PROJECT: _____
 CLIENT PROJECT NO.: _____

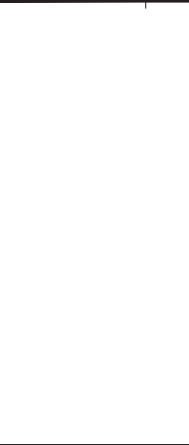
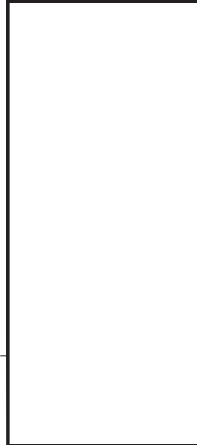
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 DESIGNED BY: ASGT
 CHECKED BY: AJMM
 ORIGINAL ISSUE DATE: 02/19/2024
 CLIENT PROJECT NO.: _____

EDEN PRAIRIE, MINNESOTA
 DATE: _____
 DESCRIPTION: _____

CITY OF EDEN PRAIRIE MILLER PARK OUTDOOR COURTS

EDEN PRAIRIE, MINNESOTA

DATE	REVISIONS OR CHANGE	DESCRIPTION	BY



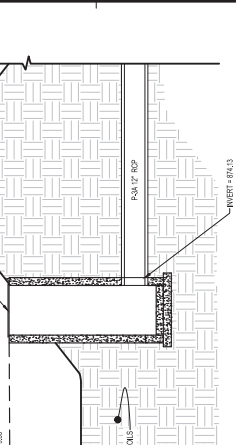
NOTES:
 1. ACCESSIBLE PARKING SIGN TO BE MOUNTED AT THE HEIGHT INDICATED ON DRAWING. SIGN SHALL BE 16" WIDE AND 28" HIGH. SIGN TO BE MOUNTED ON PARKING STRIP.

ACCESSIBLE PARKING SIGN NTS

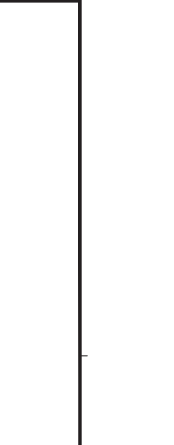
68" FROM PARKING SURFACE



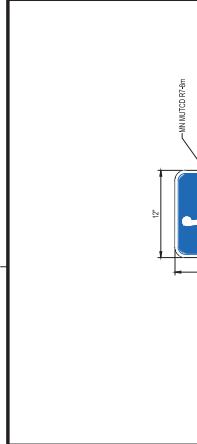
SIGN POST IN BOLLARD NTS



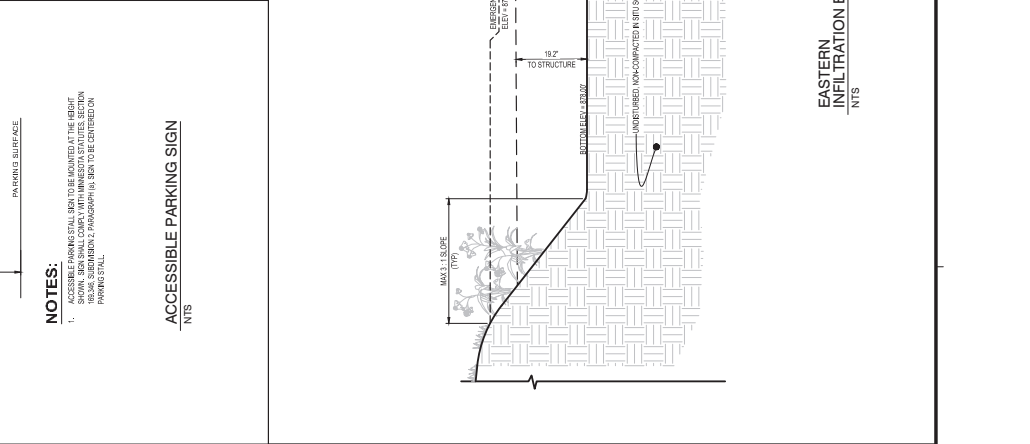
ACCESSIBLE PARKING AREA NTS



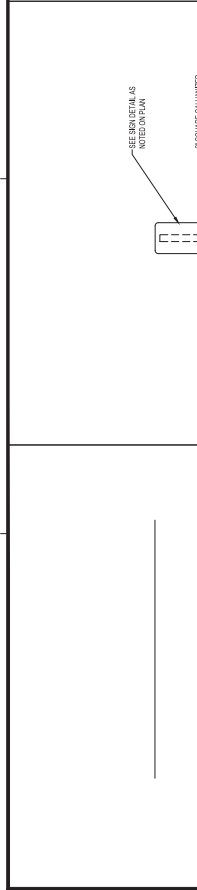
EASTERN INFILTRATION BASIN NTS



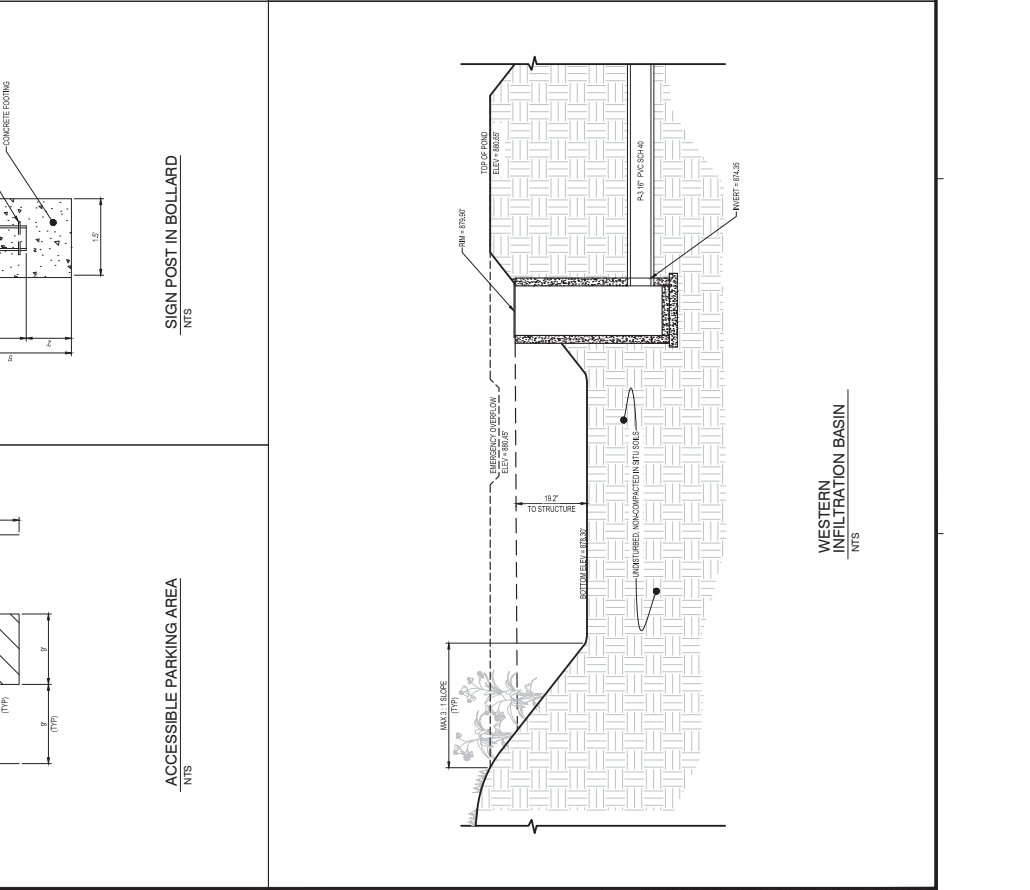
WESTERN INFILTRATION BASIN NTS



SHEET



ACCESSIBLE PARKING AREA NTS



SHEET



STORMWATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE

PROJECT LOCATION
 PROJECT/SITE NAME: MILLER PARK OUTDOOR COURTS
 PROJECT LOCATION: 8208 EDEN PRAIRIE RD
 CITY/TOWNSHIP: EDEN PRAIRIE
 COUNTY/STATE: HENNEPIN COUNTY, MINNESOTA
 ZIP CODE: 55344
 QUARTER SECTION, TOWNSHIP, RANGE: SECTION 17, TOWNSHIP 116 NORTH, RANGE 22 WEST

PROJECT DESCRIPTION

THE PROJECT INCLUDES THE REMOVAL OF AN EXISTING TENNIS COURT AND BASKETBALL COURT ALONG WITH OTHER SIDEWALK PAVEMENT. THERE WILL BE CONSTRUCTION OF NEW PICKLEBALL COURTS, BASKETBALL COURT, AND TENNIS COURT COURT ALONG WITH ASSOCIATED PAVEMENT SURROUNDING THE NEW COURTS AND A TRAIL AROUND THE SITE CONNECTING TO EXISTING TRAILS. OTHER CONSTRUCTION ITEMS INCLUDES NEW STORMWATER FILTRATION PONDS AND STORM SEWER SYSTEM.

TENTATIVE CONSTRUCTION SCHEDULE (OPERATOR SHOULD PROVIDE ESTIMATED CONSTRUCTION SCHEDULE TO THE OWNER'S REPRESENTATIVE)

CONSTRUCTION ACTIVITIES:	ESTIMATED DATES OF SOIL DISTURBANCE ACTIVITIES:
REMOVALS	JULY 2024
GRADING, BASIN CONSTRUCTION, AND UTILITY INSTALLATION	AUGUST 2024
PAVING AND COURT CONSTRUCTION	SEPTEMBER – OCTOBER 2024
LANDSCAPING AND MISC. FINISHES	OCTOBER 2024

PRE-CONSTRUCTION IMPERVIOUS SURFACE AND DISTURBED AREA CALCULATIONS

TOTAL PROJECT AREAS: 1.39 ACRES
 TOTAL AREA TO BE DISTURBED: 1.39 ACRES
 MINIMUM AREA REQUIRING MP/CA PERMIT = 1.00 ACRES
 AN MP/CA NPDES PERMIT IS REQUIRED FOR THIS PROJECT
 IMPERVIOUS AREA: PRE-CONSTRUCTION = 0.64 ACRES/POST-CONSTRUCTION = 0.91 ACRES*
 MINIMUM NEW IMPERVIOUS SURFACE AREA: 0.27 ACRES
 MINIMUM NEW IMPERVIOUS SURFACE AREA: 0.27 ACRES
 ACRES (BASED ON MP/CA PERMIT/CITY CODE/WATERSHED REQUIREMENTS)

CONTACT INFORMATION/RESPONSIBLE PARTIES

THE OWNER OWNS THE LAND, ADJACENT ROADS, AND EASEMENT AREAS ASSOCIATED WITH THE PROJECT. THE OWNER IS THE OWNER CO-APPLICANT APPLYING FOR PERMIT COVERAGE AND WILL BE RESPONSIBLE FOR COMPLIANCE WITH ALL TERMS AND CONDITIONS OF THE PERMIT INCLUDING DEVELOPING THE SWPPP AND THE LONG-TERM MAINTENANCE PLAN OF THE PERMANENT STORMWATER MANAGEMENT SYSTEM FOR THIS PROJECT (IF APPLICABLE). THE OWNER WILL ENSURE THAT THE DESCRIBED WORK IN THE SWPPP IS BEING COMPLETED BY THE OPERATOR PERMITTEE.

OWNER/PERMITTEE: CITY OF EDEN PRAIRIE (AMY MARKLE – PARKS AND RECREATION DIRECTOR)
 16700 VALLEY VIEW ROAD
 EDEN PRAIRIE, MN 55346
 952-949-8440/AMARKLE@EDENPRAIRIE.ORG

THE PRIMARY CONTRACTOR WILL ENTER INTO A CONTRACT WITH THE OWNER TO COMPLETE THE REQUIRED WORK FOR THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND CERTIFICATIONS FROM THE OPERATOR PERMITTEE AND THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AN EROSION CONTROL SUPERVISOR PRIOR TO STARTING CONSTRUCTION (REFER TO SWPPP AMENDMENT SECTION). THE NPDES PERMIT MODIFICATION FORM SHALL BE SUBMITTED TO THE MP/CA AFTER THE PROJECT IS AWARDED TO THE OPERATION, PRIOR TO LETTING THE PROJECT.

THE OPERATOR WILL ENSURE THAT INDIVIDUALS OVERSEEING OR IMPLEMENTING THE SWPPP HAVE BEEN PROPERLY TRAINED AND THAT CERTIFICATIONS WILL BE MADE AVAILABLE UPON REQUEST. THIS INCLUDES ANY SUB-CONTRACTORS THAT THE OPERATOR EMPLOYS UNDER SEPARATE CONTRACT. THE OPERATOR WILL PROVIDE THE CONTACT INFORMATION FOR THE EROSION CONTROL SUPERVISOR, SITE SUPERINTENDENT/CREWMAN, AND BMP INSTALLERS. THE EROSION CONTROL SUPERVISOR SHALL BE A RESPONSIBLE EMPLOYEE OF THE PRIME CONTRACTOR AND/OR DULY AUTHORIZED BY THE PRIME CONTRACTOR TO REPRESENT THE PRIME CONTRACTOR ON ALL MATTERS PERTAINING TO THE NPDES CONSTRUCTION STORMWATER PERMIT COMPLIANCE. THE EROSION CONTROL SUPERVISOR SHALL HAVE AUTHORITY OVER ALL OPERATOR ACTIVITIES WHICH INFLUENCE NPDES PERMIT COMPLIANCE, INCLUDING GRADING, EXCAVATION, BRIDGE CONSTRUCTION, CULVERT INSTALLATION, UTILITY WORK, CLEARING/GRUBBING, DEWATERING, AND ANY OTHER OPERATION THAT INCREASES THE EROSION POTENTIAL ON THE PROJECT.

THE OPERATOR WILL PERFORM A PRE-CONSTRUCTION SITE VISIT TO ADDRESS ANY AREAS OF CONCERN PERTAINING TO ENVIRONMENTAL COMPLIANCE. THE OPERATOR WILL IMPLEMENT AND MAINTAIN BMPs FOR THE DURATION OF CONSTRUCTION PROJECT. THE OPERATOR WILL COMPLETE THE REQUIRED SITE INSPECTIONS, AND IS RESPONSIBLE FOR SECTION 3.4, 6.22, 24, AND APPLICABLE PARTS OF 23, TO REMAIN IN COMPLIANCE WITH NPDES PERMIT.

OPERATOR/PERMITTEE: (TO BE DETERMINED AND IDENTIFIED THROUGH TRANSFER OF NPDES-CSW PERMIT)

ISG INC. HAS BEEN CONTRACTED BY THE OWNER TO DEVELOP THE SWPPP PLAN FOR THIS PROJECT. THIS SWPPP WAS PREPARED BY AN INDIVIDUAL THAT HAS BEEN PROPERLY TRAINED IN ACCORDANCE TO SECTION 21 OF THE NPDES PERMIT (CERTIFICATION CARDS ARE AVAILABLE UPON REQUEST). ISG INC. WILL OFFER GUIDANCE FOR COMPLIANCE WITH THE NPDES PERMIT BEFORE, DURING, AND AFTER CONSTRUCTION OF THE PROJECT.

SWPPP DESIGNER:
 ISG INC. (GANNON JORDAHL)
 115 E HICKORY ST, SUITE 300
 MANKATO, MN 56001
 320-583-3297/GANNON.JORDAHL@ISGINC.COM

AGENCY CONTACTS	PERMIT	NAME	PHONE NUMBER/E-MAIL
MP/CA (EMERGENCY)	N/A	STATE DUTY OFFICER	1-800-422-0798
MP/CA	#NPDES-CSW	JOSH NORMAN	651-357-3369 / JOSH.NORMAN@STATE.MN.US
RULEY PURGATORY BULF CREEK WATERSHED DISTRICT	RULE C AND J	TERRY JEFFERY	952-807-6885 / TJEFFERY@RPSOWD.ORG
CITY OF EDEN PRAIRIE	LAND ALTERATION PERMIT	CHARTER SPHALZE	952-548-8339 / CSSCHULZE@EDENPRAIRIE.ORG

PERMANENT STORMWATER TREATMENT SYSTEMS

THE NPDES PERMANENT WATER QUALITY VOLUME (SECTION 15) FROM THE NET NEW IMPERVIOUS SURFACES OF THE PROJECT IS PROVIDED IN THE PROPOSED FILTRATION BASINS HYDROLOGIC AND WATER QUALITY MODELING DATA AND THE CONTAMINATION CHECKLIST IS AVAILABLE UPON REQUEST. THE SITE IS ABLE TO MEET THE FULL VOLUME REDUCTION REQUIREMENT DUE. INFILTRATION RATES WERE DETERMINED BY INFILTRATION RATE TESTING. TEST RESULTS ARE AVAILABLE UPON REQUEST.

LOCATION OF SWPPP COMPONENTS

DESCRIPTION	TITLE	LOCATION (SHEET NAME)
SWPPP NARRATIVE	SWPPP NARRATIVE	C1-10 SWPPP NARRATIVE
SITE MAPS (SOILS, WATER RESOURCES, POTENTIAL POLLUTANT GENERATING ACTIVITIES)	SWPPP NARRATIVE	C1-10 SWPPP NARRATIVE
CONSTRUCTION PHASING (STAGING, BUFFERS, & AREAS NOT TO BE DISTURBED)	SWPPP NARRATIVE	C1-40 SWPPP NARRATIVE
DIRECTION OF SURFACE WATER FLOW (PRE- & POST- CONSTRUCTION)	PRE-CONSTRUCTION SWPPP, SWPPP SWPPP	C1-30 PRE-CONSTRUCTION SWPPP, C1-40 SWPPP
TEMPORARY EROSION & SEDIMENT CONTROL BMPs FOR STEEP SLOPES (S1), DINK FISH EXCLUSION BARRIERS IN WATER RESTRICTIONS*	SWPPP SWPPP NARRATIVE	C1-10 SWPPP NARRATIVE, C1-40 SWPPP
PERMANENT EROSION PREVENTION BMPs	SWPPP NARRATIVE	C1-10 SWPPP NARRATIVE, CS-10 SITE RESTORATION PLAN
STORM SEWER	UTILITY PLAN	CS-20 UTILITY PLAN
GRADING	GRADING PLAN	C4-10 GRADING PLAN
ESTIMATED BMP QUANTITIES	SWPPP NARRATIVE	C1-10 SWPPP NARRATIVE
BMP DETAILS/SPECIFICATIONS	SWPPP NARRATIVE	C1-10 SWPPP NARRATIVE
HYDROLOGIC/WATER QUALITY MODELING	AVAILABLE UPON REQUEST	

EXISTING SITE CONDITIONS, SOILS, & WATER RESOURCES

SOILS AND NATIVE TOPSOIL, NATIVE TOPSOIL WILL BE STRIPPED AND STOCKPILED FOR FINAL GRADING OPERATIONS. WHERE INDICATED IN THE CONSTRUCTION PLANS AND SPECIFICATIONS, METHODS AND EQUIPMENT TO MINIMIZE SOIL COMPACTION (IN PROPOSED INFILTRATION AREAS, DRIP LINE OF TREES TO BE PRESERVED, ETC.) SHALL BE DETERMINED BY THE OPERATOR'S SWPPP AMENDMENT. TRACKED VEHICLES ARE PROHIBITED AND WHEELED VEHICLES ARE DISCOURAGED IN THESE AREAS. THE FOLLOWING USDA-NRCS IMPROVED SOILS ARE SHOWN AS "NOT HIGHLY ERODIBLE", POTENTIALLY HIGHLY ERODIBLE, AND HIGHLY ERODIBLE ON THE COUNTY SOIL SURVEY MAP.

USDA-NRCS MAPPED SOIL SURVEY UNIT NO., NAME, TEXTURE, SLOPE PERCENTAGE	PERCENTAGE OF PROJECT AREA	APPROXIMATE PARTICULATE SIZE RANGE (MM)	SAND (0.075- 2.0MM)	SILT (0.002- 0.075MM)	CLAY (>0.075MM)
120C2 - LESTER LOAM, 6-10% SLOPES, MODERATELY ERODED	2.6	33-65%	33-50%	33-50%	25-30%
137B - ANGUS LOAM, 2-6% SLOPES	46.6	33-65%	33-50%	33-50%	25-30%
147B - EDEN PRAIRIE LOAM, 2-6% SLOPES	4.8	60-90%	0-15%	0-15%	0-15%

DESCRIPTION OF RECEIVING WATERS (LOCATED WITHIN LABEL). STORMWATER FROM THIS PROJECT WILL DRAIN INTO AN EXISTING STORMWATER POND. THE WATER WILL DRAIN TO AND BE FILTERED IN TWO PROPOSED FILTRATION BASINS, OR FLOW INTO THE EXISTING STORM SEWER BEFORE DRAINING INTO THE EXISTING POND. HYDROLOGIC AND WATER QUALITY MODELING DATA IS AVAILABLE UPON REQUEST.

DESCRIPTION OF IMPAIRED WATERS OR WATER SUBJECT TO TIDALS. A SPECIAL AND IMPAIRED WATERS SEARCH WAS COMPLETED USING THE MP/CA SEARCH ENGINE (<https://www.mn.gov/education/education-and-learning/education/education-search-engine>) ON 03/19/2024. BASED ON THIS REVIEW, THE FOLLOWING SPECIAL OR IMPAIRED WATERS (WITH CONSTRUCTION RELATED

PRELIMINARY NOT FOR CONSTRUCTION PRELIMINARY NOT FOR CONSTRUCTION

SWPPP NARRATIVE
C1-10

PROJECT: CITY OF EDEN PRAIRIE
 MILLER PARK OUTDOOR COURTS
 EDEN PRAIRIE, MINNESOTA

DATE: 2/26/2024
 BY: [Redacted]
 FILE NAME: 20240226-01-SWPPP
 DRAWN BY: [Redacted]
 CHECKED BY: [Redacted]
 ORIGINAL ISSUE DATE: 03/19/2024
 CLIENT PROJECT NO.: [Redacted]
 TITLE: SWPPP NARRATIVE
 SHEET: C1-10

IMPAIRMENTS ARE LOCATED WITHIN ONE MILE OF, AND DOWNSTREAM OF, ANY PROJECT DISCHARGE POINTS: RICE MARSH (STATE WATERBODY ID: 10-0001-00) IS IMPAIRED (NUTRIENTS), THEREFORE SECTION 32.2 AND 48.3 REQUIREMENTS APPLY TO THIS PROJECT.

23.9 EXPOSED SOILS: OPERATOR SHALL STABILIZE ALL EXPOSED SOIL AREAS WITHIN (7) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

POTENTIAL FOR SEDIMENT AND/OR OTHER POLLUTANT(S) DISCHARGING FROM THE PROJECT SITE
 THE TEMPORARY EROSION AND SEDIMENT CONTROL BMPs IN THIS SWPPP HAVE BEEN DESIGNED TO MINIMIZE THE POTENTIAL OF SEDIMENTS DISCHARGING OFF-SITE FROM A 0.5 INCH RAINFALL WITHIN A 24 HOUR PERIOD. THE NOAA ATLAS 14 POINT PRECIPITATION FREQUENCY ESTIMATE FOR THE PROJECT LOCATION WAS REVIEWED AND USED FOR ANTICIPATED INSPECTION FREQUENCY. BMP DESIGN, AND ESTIMATING CONSTRUCTION ACTIVITIES IN THIS SWPPP. ATLAS 14 RESULTS DO NOT NECESSARILY REFLECT ANY DESIGN CRITERIA IN THE PERMANENT STORMWATER MANAGEMENT SYSTEM.

ROUTINE INSPECTION AND BMP MAINTENANCE BY THE OPERATOR IS CRUCIAL IN ENSURING THE FUNCTIONALITY OF EACH BMP, STEEP SLOPES AND OTHER ENVIRONMENTALLY SENSITIVE AREAS THAT ARE AT A HIGHER RISK OF SEDIMENTATION ARE DEFINED IN THIS SWPPP (IF APPLICABLE).

CONSTRUCTION PHASING/STAGING, BUFFERS, & AREAS NOT TO BE DISTURBED
 AREAS NOT TO BE DISTURBED ARE TO BE DELINEATED BEFORE WORK BEGINS. PERMITTEES ARE RESPONSIBLE FOR PRESERVING A 50 FOOT NATURAL BUFFER OR (IF INFASIBLE AND DOCUMENTED) PROVIDE REDUNDANT SEDIMENT CONTROL BMPs, WHEN A SURFACE WATER IS LOCATED WITHIN 50 FEET AND RECEIVES DRAINAGE FROM THE PROJECT'S GRADING LIMITS. THIS REQUIREMENT DOES NOT APPLY TO ADJACENT ROADSIDE DITCHES, JUDICIAL/COUNTY DITCHES, STORMWATER CONVEYANCES, STORM DRAIN INLETS, AND SEDIMENT BASINS.

THERE IS NO CONSTRUCTION PHASING OR STAGING DEFINED BY THE OWNER FOR THIS PROJECT. THE SCHEDULE FOR INSTALLING TEMPORARY BMPs SHALL BE INCORPORATED INTO THE OPERATORS WEEKLY SCHEDULE FOR EACH CONSTRUCTION STAGE AND PRESENTED TO THE OWNER'S REPRESENTATIVE (PER WINDOT SPEC 1717(D)).

ENVIRONMENTALLY SENSITIVE AREAS
 STEEP SLOPES, EXISTING AND PROPOSED SLOPES (IN 3 (33.33%) AND STEEPER THAN ARE PROPOSED TO BE DISTURBED OPERATIONS. IT IS NECESSARY AT WHICH TEMPORARY BMPs MUST BE IMPLEMENTED BY THE OPERATOR (THROUGH AN APPROVED SWPPP AMENDMENT) WITHIN 7 DAYS OF NO LONGER WORKING THE STEEP SLOPE.

CONTAMINATED PERMITS: THE MPCA'S 'WHAT'S IN MY NEIGHBORHOOD' DATABASE WAS REVIEWED ON 03/19/2024 (WWW.PCA.STATE.MN.US/DATA/WHAT'S-IN-MY-NEIGHBORHOOD) AND A CONTAMINATION ASSESSMENT WAS PERFORMED (AVAILABLE UPON REQUEST). THE RESULTS OF THIS REVIEW SHOW NO KNOWN CONTAMINATED PROPERTIES OR LEAK SOURCES LOCATED WITHIN AND ADJACENT TO THE PROJECT LIMITS.

STORMWATER POLLUTION MITIGATION MEASURES (AS IDENTIFIED FROM ENVIRONMENTAL REVIEW): NO FORMAL ENVIRONMENTAL REVIEW WAS REQUIRED FOR THIS PROJECT; THEREFORE, NO ADDITIONAL STORMWATER RELATED MITIGATION MEASURES APPLY.

KARST AREAS: THERE ARE NO KNOWN ACTIVE KARST AREAS WITHIN OR ADJACENT TO THE PROJECT LIMITS

SITE PLAN REQUIRED AREAS: NO AREAS OF HIGH ENVIRONMENTAL RISKS ARE KNOWN TO BE LOCATED WITHIN OR IMMEDIATELY ADJACENT TO THE PROJECT LIMITS.

FLOOD CONTINGENCY PLAN: PROJECT ACTIVITIES MAY OCCUR WITHIN THE 100-YEAR FLOODPLAIN OR FLOODWAY; THEREFORE THE PROJECT ENGINEER (AT THEIR DISCRETION) MAY REQUIRE A PREVENTATIVE FLOOD CONTINGENCY PLAN FOR SPECIFIC PROJECT ACTIVITIES AND AREAS IF SEASONAL PRECIPITATION POSSES A POTENTIAL RISK OF FLOODING WORK AREAS WITHIN THE PROJECT LIMITS. THIS PLAN SHALL BE SUBMITTED BY THE OPERATOR TO THE OWNER'S REPRESENTATIVE FOR APPROVAL A MINIMUM OF 72 HOURS PRIOR TO THE SCHEDULED WORK AND/OR DURING ACTIVE WORK WITHIN THE FLOODPLAIN. NO WORK WITHIN THE FLOODPLAIN CAN COMMENCE UNTIL WRITTEN APPROVAL/NOTICE TO PROCEED FROM THE OWNER'S REPRESENTATIVE IS RECEIVED.

AQUATIC INVASIVE SPECIES: ALL IN-STREAM AND DEWATERING EQUIPMENT SHALL BE DECONTAMINATED OF ALL AQUATIC PLANTS AND PROHIBITED INVASIVE SPECIES PRIOR TO USING WITHIN SURFACE WATERS ON-SITE AND TRANSPORTING OFF-SITE. ALL DECONTAMINATION ACTIVITIES SHALL MEET THE CHAPTER 1 STANDARDS OF THE MINNESOTA DNR'S BEST PRACTICES MANUAL FOR MEETING DNR GENERAL PUBLIC WATERS WORK PERMIT GP-2004-0001.

WETLANDS: THERE IS A WETLANDS ADJACENT TO THE PROJECT AREA AND MUST BE PROTECTED TO THE MAXIMUM EXTENT POSSIBLE. NO FILL OR EXCAVATION HAS BEEN PERMITTED AND THE BORDER BETWEEN THE PROJECT AREA AND THE WETLAND MUST BE PROTECTED WITH A SILT FENCE ALONG THE PERMETER.

APPLICABLE FEDERAL, TRIBAL, STATE OR LOCAL PROGRAMS: THE PROJECT FALLS UNDER THE JURISDICTION OF SEVERAL ENTITIES, AS IDENTIFIED IN THE 'AGENCY CONTACTS' TABLE ON PAGE 1 OF THE SWPPP. THE MORE STRINGENT OF LOCAL VS. STATE VS. FEDERAL RULES SHALL APPLY WHERE THEY CONFLICT. INFORMATION PERTAINING TO THE STATE NPDES PERMIT CAN BE FOUND AT: (HTTP://WWW.PCA.STATE.MN.US/INDEX.PHP/WATER/WATER-TYPES-AND-PROGRAMS/STORMWATER/CONSTRUCTION-TOURNOY). THE OPERATOR IS RESPONSIBLE TO COMPLY WITH ALL APPLICABLE PERMITS, MNDOT SPECIAL PROVISION, MNDOT SPEC BOOK (2018 EDITION), MNDOT SPECIFICATIONS 171.

SEQUENCE OF CONSTRUCTION/TIMING OF BMP INSTALLATION
 NO CONSTRUCTION OPERATIONS, INCLUDING REMOVALS, THAT REQUIRE EROSION & SEDIMENT CONTROL PER THE SWPPP CAN COMMENCE UNTIL THE OPERATOR'S EROSION CONTROL SUPERVISOR CERTIFIES THE PROPER INSTALLATION OF BMPs AND A CHAIN OF RESPONSIBILITY FOR SWPPP IMPLEMENTATION IS CREATED FOR ALL OPERATORS ON THE SITE. PERMETER SEDIMENT CONTROLS (SILT FENCE, INLET PROTECTION, CONSTRUCTION ENTRANCES, ETC.) SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. THESE PRACTICES SHALL REMAIN

PLACE UNTIL FINAL STABILIZATION IS ACHIEVED. OPERATOR SHALL IMPLEMENT THE NECESSARY ON-SITE BMP'S IN ACCORDANCE WITH THE NPDES PERMIT REQUIREMENTS TO PREVENT NUISANCE CONDITIONS (MN RULES 7050.2010) FROM ANY DISCHARGES UNDER COVERAGE OF THE NPDES PERMIT. IN SOME CASES, MULTIPLE OR REDUNDANT APPLICATIONS OF SOME BMP'S MAY BE NEEDED TO MEET THESE REQUIREMENTS.

INSPECTION PROCEDURES, SWPPP AMENDMENTS, RECORD KEEPING, & TRAINING

- THE SWPPP MUST BE AMENDED BY THE OPERATOR WHEN THE IDENTITY OF THE RESPONSIBLE SITE OPERATORS (EROSION CONTROL SUPERVISOR, SUB-CONTRACTORS, ETC.) ARE KNOWN.
- THE OPERATOR MUST 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 0.3 INCHES IN 24 HOURS. THE OPERATOR SHALL PROVIDE A RAINFALL GAUGE ON-SITE. WITHIN ONE MILE OF THE SITE, OR SOURCE OF THE NEAREST HIGHWAY, THE OPERATOR SHALL MAINTAIN A RECORD OF RAINFALL EVENTS. RECORDS MUST BE DOCUMENTED AND MADE ACCESSIBLE ON THE SAME TABLE AS THE SWPPP. RECORDS MUST BE DOCUMENTED, FILED IN THE SWPPP AND THE INSPECTION REPORT. THE INSPECTION FREQUENCY MAY BE REDUCED TO ONCE PER MONTH OR SUSPENDED IF SITE CONDITIONS MEET ITEM 11.10 OF THE NPDES PERMIT. ALL INSPECTIONS AND MAINTENANCE CONDUCTED MUST BE RECORDED IN WRITING BY THE OPERATOR AND RETAINED WITH THE SWPPP. THE MPCA SITE INSPECTION FORM IS AVAILABLE FOR OPERATORS TO USE TO COMPLETE THE REQUIRED INSPECTIONS. THE FORM CAN BE FOUND ON THE MPCA WEBSITE OR AVAILABLE UPON REQUEST FOR THE PROJECT OWNER. RECORDS OF EACH INSPECTION AND MAINTENANCE ACTIVITY SHALL INCLUDE:
 - DATE, TIME, AND NAME OF PERSON(S) CONDUCTING INSPECTIONS.
 - FINDINGS OF INSPECTIONS, INCLUDING RECOMMENDATIONS FOR CORRECTIVE ACTIONS.
 - CORRECTIVE ACTIONS TAKEN (INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES); INCLUDING DOCUMENTATION/PHOTOS OF IMPLEMENTED BMP'S INTENDED TO CORRECT A PROBLEM BUT FAILED.
 - DATE AND AMOUNT OF ALL RAINFALL EVENTS GREATER THAN 0.5 INCHES IN 24 HOURS.
 - DOCUMENTATION OF CHANGES MADE TO THE SWPPP.
- SWPPP AMENDMENTS AND SITE PLANS WILL BE PREPARED BY THE OPERATOR AND SUBMITTED TO THE OWNER FOR APPROVAL. AMENDMENTS WILL BE MADE BY ALL BY THE PROJECT OWNER OR DESIGNATED REPRESENTATIVE. IF OWNER ACCEPTS OR DENIES SWPPP AMENDMENTS AND SITE PLANS MUST BE RECORDED IN WRITINGS AND RETAINED WITH THE SWPPP.
- THE SWPPP SHALL BE AMENDED TO INCLUDE ADDITIONAL OR MODIFIED BMPs, DESIGNED TO CORRECT IDENTIFIED PROBLEMS OR ADDRESS SITUATIONS (UNDER SECTION 6 OF THE NPDES PERMIT), PRIOR TO CONDUCTING SPECIFIC STAGES/PHASES OF THE PROJECT, AS REQUIRED BY THE OWNER AND DEFINED IN THIS PROJECT SWPPP.

THE TABLE BELOW IS A SUMMARY OF THE REQUIRED SWPPP AMENDMENTS:

SWPPP AMENDMENT NAME	SWPPP AMENDMENT DETAILS	SWPPP AMENDMENTS REQUIRED BY OWNER	SUBMITTAL TIMEFRAME
OPERATOR CHAIN OF RESPONSIBILITY	REFER TO 'CONTACT INFORMATION/RESPONSIBLE PARTIES' SECTION	BMP AMENDMENTS	7 DAY PRIOR TO INITIATING WORK
BMP AMENDMENTS	SUBSTITUTED, ADDITIONAL OR REDUNDANT BMPs TO COMPENSATE FOR FAILING/FAILED BMPs	DURING/POSTER WORK	7 DAYS PRIOR TO INITIATING WORK
METHODS TO MINIMIZE SOIL COMPACTION	REFER TO 'EXISTING SITE CONDITIONS, SOILS, AND WATER RESOURCES' SECTION		7 DAYS PRIOR TO WORK WITHIN INFILTRATION BASINS AND PRESERVED TREE AREAS
STEEP SLOPES PHASING PLAN	REFER TO 'ENVIRONMENTALLY SENSITIVE AREAS' SECTION		7 DAYS PRIOR TO INITIATING WORK
SPILL PREVENTION & DEWATERING PLAN	REFER TO 'POLLUTION PREVENTION MANAGEMENT' SECTION		7 DAY PRIOR TO INITIATING WORK
FLOOD CONTINGENCY PLAN	REFER TO 'DEWATERING' SECTION		7 DAYS PRIOR TO ACTIVITY
	REFER TO 'ENVIRONMENTALLY SENSITIVE AREAS' SECTION		72 HOURS PRIOR TO ACTIVITY

5. THE SWPPP (ORIGINAL OR COPIES) ALL CHANGES TO THE SWPPP PROJECT MANUAL AND INSPECTIONS/MAINTENANCE RECORDS MUST BE KEPT AT THE SITE DURING CONSTRUCTION BY THE OPERATOR WHO HAS OPERATIONAL CONTROL OF THAT PORTION OF THE SITE. THE SWPPP CAN BE KEPT IN THE FIELD OFFICE OR ON SITE VEHICLE DURING NORMAL WORKING HOURS. THE PERMITTEES MUST KEEP AND MAKE AVAILABLE TO FEDERAL, STATE AND LOCAL OFFICIALS WITHIN THREE (3) DAYS OF THE SWPPP. OTHER STORMWATER RELATED PERMITS, RECORDS OF ALL INSPECTIONS/MAINTENANCE, ALL PERMANENT OPERATIONS AND MAINTENANCE AGREEMENTS, ALL REQUIRED CALCULATIONS FOR DESIGN OF THE TEMPORARY AND PERMANENT STORMWATER MANAGEMENT SYSTEMS AND OTHER INFORMATION REQUIRED BY THE GENERAL PERMIT FOR THREE YEARS FOLLOWING THE NOTICE OF TERMINATION.

6. THE OPERATOR MUST ASSIGN A TRAINED INDIVIDUAL(S) (PURSUANT TO SECTION 21) TO OVERSEE THE IMPLEMENTATION, MAINTENANCE, AND REPAIR OF BMPs. THIS INDIVIDUAL(S) SHALL ALSO PERFORM INSPECTIONS, REVISIONS TO THE SWPPP (DOCUMENT IN SWPPP AS NECESSARY) AND BE AVAILABLE FOR AN ONSITE INSPECTION WITHIN 72 HOURS UPON REQUEST BY THE PERMITTED OWNER (OR ITS DESIGNER), LOCAL GOVERNMENT UNITS, OR MPCA. WINDOT LEAD PROJECTS REQUIRE AVAILABLE ONSITE INSPECTION WITHIN 24 HOURS.

POLLUTION PREVENTION MANAGEMENT MEASURES

- POTENTIAL SOURCES OF POLLUTION FROM CONSTRUCTION ACTIVITIES INCLUDE:
- SOILS: EXISTING AND PROPOSED SLOPES, EROSION PREVENTION CLEARING AND GRUBBING, IMPORT/EXPORT OPERATIONS, BERM/SCOUR CONTROL, MASSING, GRADING, EXCAVATION, CONSTRUCTION, TRENCHING, TOP-SOIL STRIPPING, STOCKPILING, WETLANDS, WETLANDS CUTTING, STREET CONSTRUCTION.
 - BASIC/Acidic PH LEVELS FROM CURB AND GUTTER MANHOLE STRUCTURES, SIDEWALKS, DRIVEWAYS, APRONS, FOUNDATIONS, BRIDGE ABUTMENTS, WET/DRAIN CUTTING, MASONRY, WASH/SCOURING
 - EXCESS NUTRIENTS FROM LANDSCAPING INSTALLATIONS, SOIL ADDITIVES, FERTILIZATION, MULCHING



NOTE: THE CLARITY OF THESE PLANS DEPENDS ON THE QUALITY OF THE DATA PROVIDED. IF ANY INFORMATION IS MISSING OR INCOMPLETE, THE PLAN SHALL NOT BE CONSIDERED A FINAL PLAN. THIS IS NOT AN ORIGINAL PLAN SET AND MAY BE SUBJECT TO MODIFICATION.

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

NAME: _____ LIC. NO.: _____
 DATE: _____ LIC. NO.: _____
 SHEET NO.: _____ OF _____ TOTAL SHEETS

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CITY OF EDEN
PRAIRIE
MILLER PARK
OUTDOOR COURTS

EDEN PRAIRIE MINNESOTA

DATE	REVISIONS/DESCRIPTION	BY

TITLE

SWPPP
NARRATIVE

C1-11



VELOCITY DISSIPATION DEVICES WITHIN AND ALONG THE LENGTH OF THE CHANNEL AND AT ANY OUTLETS. TEMPORARY OR PERMANENT DITCHES OR SWALES THAT ARE BEING USED AS A TEMPORARY SEDIMENT CONTAINMENT SYSTEM (WITH PROPERLY DESIGNED ROCK DITCH CHECKS, BIO ROLLS, SILT DIKES ETC.) DO NOT NEED TO BE STABILIZED. THESE AREAS HOWEVER MUST BE STABILIZED WITHIN 24 HOURS AFTER NO LONGER BEING USED AS A SEDIMENT CONTAINMENT SYSTEM. MULCH, HYDROMULCH, TACKIFIER, OR POLYACRYLAMIDE BELOW THE WETTED PERIMETER OF A DITCH, SWALE, OR OTHER SURFACE WATER CONVEYANCE IS NOT ACCEPTABLE STABILIZATION.

EROSION CONTROL BLANKETS/MATS: OPERATOR SHALL VERIFY DURING REGULAR INSPECTIONS THAT NO GULLIES, RILLS, OR SCOUR HOLES HAVE FORMED UNDER EROSION CONTROL BLANKETS AND MATS. ALL REPAIRS MUST BE COMPLETED WITHIN 24 HOURS OF DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.

MULCH: OPERATOR MUST APPLY MULCH IN A UNIFORM PATTERN OVER THE DISTURBED SOILS, TO ACHIEVE A MINIMUM OF 90% GROUND COVER.

DUST CONTROL: DUST FROM THE SITE WILL BE CONTROLLED BY INCREASED STREET SWEEPING AND/OR USING A MOBILE PRESSURE-TYPE DISTRIBUTOR TRUCK TO APPLY POTABLE WATER TO DISTURBED AREAS. THE MOBILE UNIT WILL APPLY WATER AT A RATE NECESSARY TO PREVENT RUNOFF AND PONDING.

STORM SEWER OUTLETS: PIPE OUTLETS MUST HAVE TEMPORARY OR PERMANENT ENERGY DISSIPATION WITHIN 24 HOURS AFTER HYDRAULIC CONNECTION TO A RECEIVING SURFACE WATER.

TEMPORARY & PERMANENT EROSION PREVENTION BMPs

TYPE 1 MULCH: APPLY TO DISTURBED SLOPES LESS THAN 1:3 WITH BLOWER EQUIPMENT OR CONCURRENTLY WITH HYDROMULCH. AT 2 TONS/ACRE. IMMEDIATELY OVERSPRAY (IF NOT HYDROMULCHED) WITH TACKIFIER (PER MANUFACTURER'S RECOMMENDED RATES) OR DISC-ANCHORED.

RAPID STABILIZATION METHOD #3: THIS WORK SHALL CONSIST OF OPERATIONS NECESSARY TO RAPIDLY STABILIZE SMALL CRITICAL AREAS WITHIN 20FT OF SURFACE WATERS, TO PREVENT OFF SITE SEDIMENTATION AND/OR TO COMPLY WITH PERMIT REQUIREMENTS. INSTALL PER MNDOT SPECIFICATIONS 275.3N.

RAPID STABILIZATION METHOD #4 (WOOD FIBER, NATURAL NET ONLY) IS AN ACCEPTABLE BMP FOR DISTURBED AREAS ADJACENT TO ENVIRONMENTALLY SENSITIVE AREAS, SURFACE WATERS, AND WITHIN THE LAST 200 FEET OF DITCH BOTTOMS.

TEMPORARY WINTER COVER: AREAS OF EXPOSED SOILS THAT ARE NOT COMPLETED BEFORE THE WINTER WILL BE STABILIZED WITH TYPE #3 (CERTIFIED AS WEED FREE) ADJACENT TO WETLAND OR STORMWATER PONDS. ALL OTHER DISTURBED AREAS SHALL BE STABILIZED WITH TYPE #1 MULCH, UNLESS ALTERNATIVE MORE PROTECTIVE BMPs ARE SPECIFIC WITHIN THE SWPPP. ALL EXPOSED SOILS SHALL BE STABILIZED BEFORE CONSTRUCTION IS COMPLETED FOR THE SEASON.

HYDROMULCH TYPE #5: HYDRAULIC SOIL STABILIZER IN COMBINATION WITH A TACKIFIER WILL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS TO EXPOSED SOILS AREAS TO PROVIDE TEMPORARY LONG-TERM OR PERMANENT COVER FOR VEGETATION ESTABLISHMENT.

CONSTRUCTION ACTIVITY REQUIREMENTS: SEDIMENT CONTROL PRACTICES, PROCEDURES, & MAINTENANCE STANDARDS

DOWNGRADIENT SYSTEMS: IF THE DOWNGRADIENT TREATMENT SYSTEM IS OVERLOADED, ADDITIONAL UP GRADIENT SEDIMENT CONTROL PRACTICES OR REDUNDANT BMPs MUST BE INSTALLED TO ELIMINATE THE OVERLOADING, AND THE SWPPP MUST BE AMENDED TO IDENTIFY THESE ADDITIONAL PRACTICES.

PERIMETER CONTROL BMPs (SILT FENCES, CHIP/SLASH MULCH SOCKS, BIOBOLLS, FLOATING SILT CURTAIN, ETC.) PERIMETER CONTROL BMPs SHALL BE INSTALLED ON ALL DOWNGRADIENT PERIMETERS AND UPGRADIENT OF ANY BUFFER AREAS. PRIOR TO INITIATING UPGRADIENT LAND DISTURBANCE ACTIVITIES, UPLAND PERIMETER CONTROLS BMPs SHALL BE PLACED AS CLOSE AS POSSIBLE TO FOLLOW A SINGLE CONTOUR ELEVATION. ALL PERIMETER CONTROL DEVICES MUST BE REPAIRED, REPLACED, OR MAINTAINED WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES 1/2 OF THE HEIGHT OF THE DEVICE. FLOATING SILT CURTAIN SHALL BE INSTALLED AS CLOSE TO THE SHORELINE AS POSSIBLE FOR SHORELAND-WATER SHORT-TERM CONSTRUCTION ACTIVITIES. IMMEDIATELY AFTER THE SHORT-TERM ACTIVITY IN THAT AREA IS COMPLETE, AN UPLAND PERIMETER CONTROL MUST BE INSTALLED IF EXPOSED SOILS CONTINUE TO DRAIN TO THE SURFACE WATER.

50 FOOT NATURAL BUFFERS: REFER TO 'CONSTRUCTION PHASING/STAGING, BUFFERS, & AREAS NOT TO BE DISTURBED' SECTION OF THIS SWPPP.

TEMPORARY SEDIMENTATION BASINS: WHERE TEN (10) OR MORE ACRES OF DISTURBED SOIL DRAIN TO A COMMON LOCATION, A TEMPORARY SEDIMENT BASIN MUST BE PROVIDED PRIOR TO RUNOFF LEAVING THE CONSTRUCTION SITE OR ENTERING SURFACE WATERS. ALL TEMPORARY BASINS MUST BE CONSTRUCTED AND OPERATIONAL PRIOR TO GRADING TEN (10) OR MORE ACRES. BASINS MUST PROVIDE A LIVE STORAGE VOLUME FROM A TWO YEAR 24-HOUR STORM EVENT FROM EACH ACRE (DISTURBED AND UNDISTURBED) DRAINING TO THE BASIN OR 1,000 CUBIC FEET OF LIVE STORAGE PER ACRE DRAINED, WHICHEVER IS GREATER. AT A MINIMUM, IF CALCULATIONS ARE NOT PERFORMED THE BASIN SHALL PROVIDE 3,600 CUBIC FEET OF LIVE STORAGE FROM EACH ACRE. THE BASIN INTAKE MUST BE DESIGNED TO WITHDRAW WATER FROM THE SURFACE, PREVENT SHORT CIRCUITING AND THE DISCHARGE OF FLOATING DEBRIS, INCLUDE AN EMERGENCY OVERFLOW ABOVE THE LIVE STORAGE ELEVATION, AND PROVIDE ENERGY DISSIPATION AT THE BASIN OUTLET. BASINS MUST BE DRAINED AND VOLUME IF A BASIN IS INFEASIBLE WITHIN THE PROJECT LIMITS. EQUIVALENT SEDIMENT CONTROL BMPs MUST BE IMPLEMENTED AND DOCUMENTED IN THE SWPPP OR SWPPP AMENDMENT.

TEMPORARY STOCKPILES: ALL STOCKPILES MUST HAVE SILT FENCE OR EQUIVALENT PERIMETER SEDIMENT CONTROLS IMPLEMENTED AND MAINTAINED AT ALL TIMES. PILES CANNOT BE PLACED IN BUFFER AREAS OR SURFACE WATERS,

- HYDROCARBONS FROM STREET CONSTRUCTION, DEMOLITION/REMOVALS, WET/DRY PAVEMENT CUTTING

OPERATOR WILL COMPLY WITH ALL OF THE POLLUTION PREVENTION AND MANAGEMENT MEASURES IDENTIFIED IN THE SPWP CSW PERMIT. OPERATOR WILL SUBMIT A SPILL PREVENTION AND RESPONSE PLAN (SPRP) TO THE ENGINEER PRIOR TO ANY CONSTRUCTION ACTIVITY. THE SPRP MUST SATISFACTORILY ADDRESS (AT A MINIMUM) THE FOLLOWING NPDES REQUIREMENTS TO THE PROPOSED IMPLEMENTATION AND MAINTENANCE OF APPROPRIATE BMPs:

NO-EXPOSURE: CONSTRUCTION AND BUILDING PRODUCTS (THAT HAVE THE POTENTIAL TO LEACH POLLUTANTS), PESTICIDES/HERBICIDES, INSECTICIDES/FERTILIZERS/TREATMENT CHEMICALS, AND LANDSCAPING MATERIALS MUST BE UNDER COVER (PLASTIC SHEETING OR TEMPORARY ROOFS) TO MINIMIZE CONTACT WITH STORMWATER AND PRECIPITATION.

SOLID WASTE (SEDIMENT, ASPHALT, CONCRETE MILLINGS, CONSTRUCTION AND DEMOLITION DEBRIS) AND OTHER WASTES MUST BE DISPOSED OF PROPERLY AND SHALL COMPLY WITH MPCA DISPOSAL REQUIREMENTS (CH. 7035).

HAZARDOUS MATERIALS: (E.G. GAS, DIESEL OIL, ANTIFREEZE, PAINT, SOLVENTS, SOAPS, DETERGENTS, WOOD PRESERVATIVES, CLEANING SOLVENTS, CURING COMPOUNDS, ACIDS, ETC.) MUST BE STORED IN SEALEDED CONTAINERS. SECONDARY SPILL CONTAINMENT IS REQUIRED FOR ALL MATERIALS IF STORED ON-SITE FOR MORE THAN 24 CONSECUTIVE HOURS (DOUBLE WALLED TANKS ARE ACCEPTABLE FOR SECONDARY CONTAINMENT). STORAGE AND DISPOSAL OF HAZARDOUS WASTES AND MATERIALS MUST BE IN COMPLIANCE WITH MPCA REGULATIONS (CH. 7045).

PORTABLE TOILETS: MUST BE POSITIONED AND SECURED SO THEY ARE NOT TIPPED OR KNOCKED OVER. SANITARY WASTE MUST BE PROPERLY DISPOSED OF IN ACCORDANCE WITH MPCA REGULATIONS (CH. 7041).

SPILLED OR LEAKED CHEMICALS: REASONABLE STEPS TO PREVENT THE DISCHARGE OF SPILLED OR LEAKED CHEMICALS, INCLUDING FUEL, AND MATERIALS FOR CONTAINMENT, CLEANUP (DRIP PANS, ABSORBENTS, AND SPILL KITS), AND STORAGE MUST BE AVAILABLE AT ALL TIMES ON-SITE. PERMITTEES MUST REPORT AND CLEAN UP SPILLS IMMEDIATELY AS REQUIRED BY MINNESOTA STATUTE 115.001.

EQUIPMENT/VEHICLE WASHING: WHEN VEHICLE/EQUIPMENT WASHING MUST OCCUR ON-SITE, THE ACTIVITY IS LIMITED TO A CONTAINED PORTION OF THE WASHING AREA UNLESS INFEASIBLE THROUGH A SWPPP AMENDMENT. SOAPS, DETERGENTS, AND SOLVENTS ARE TO BE USED AND STORED PROPERLY. RUNOFF MUST BE CONTAINED FROM THE WASHING AREAS AND DISPOSED OF PROPERLY.

CONCRETE, STUCCO, PAINT, CURING COMPOUNDS, SOLVENTS, AND OTHER WASHOUT WASTES; TEMPORARY OR LONG TERM STORAGE OF WASHOUT WASTE IS PROHIBITED ON-SITE (SLURRY MUST BE HAULED IMMEDIATELY OFF-SITE). OPERATOR MUST SUBMIT A CONCRETE WASHOUT PLAN TO THE PROJECT ENGINEER FOR APPROVAL OF ALL ON-SITE WASHOUT LOCATIONS. ON-SITE WASHOUT LOCATIONS MUST BE LOCATED 200 FEET FROM AN ENVIRONMENTALLY SENSITIVE AREA AND SURFACE WATERS. HAVE "CONCRETE WASHOUT AREA" SIGNAGE, AND BE CONTAINED IN A LEAK PROOF CONTAINER OR IMPERMEABLE LINER. LIQUID AND SOLID WASTES SHOULD NOT CONTACT THE GROUND (UNLESS PERMITTED IN THE CONCRETE WASHOUT PLAN). BE CONTAINED TO PREVENT RUNOFF FROM THE WASHOUT LOCATION, AND MUST BE DISPOSED OF PROPERLY AND IN COMPLIANCE WITH MPCA REGULATIONS.

BURNING: BURNING OF GARBAGE, CONSTRUCTION DEBRIS, TREES, BRUSH, OR OTHER VEGETATIVE MATERIAL IS NOT ALLOWED ON SITE, UNLESS PRIOR APPROVAL IS GRANTED BY THE OWNER.

CONSTRUCTION ACTIVITY REQUIREMENTS: EROSION PREVENTION PRACTICES, PROCEDURES, & MAINTENANCE STANDARDS

THE OPERATOR IS RESPONSIBLE FOR THE INSTALLATION, OPERATION, AND CONTINUED MAINTENANCE OF ALL TEMPORARY AND PERMANENT WATER QUALITY MANAGEMENT BMPs, AS WELL AS ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPs. FOR THE DURATION OF THE CONSTRUCTION WORK AT THE SITE, UNTIL FINAL STABILIZATION IS ACHIEVED, ALL BMPs MUST BE ADEQUATELY LOCATED, DESIGNED, INSTALLED, AND MAINTAINED TO PREVENT EROSION FROM A MINIMUM 0.5 INCH TOTAL RAINFALL EVENT WITHIN 24 HOURS.

ALL NONFUNCTIONAL BMPs MUST BE REPAIRED, REPLACED, OR SUPPLEMENTED WITH FUNCTIONAL BMPs BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS UNLESS ANOTHER TIME FRAME IS SPECIFIED IN THE SWPPP. ALL ERODED MATERIAL THAT LEAVES THE SITE SHALL BE COLLECTED BY THE OPERATOR AND RETURNED TO THE SITE AT THE OPERATOR'S EXPENSE AND INCIDENTAL TO THE PROJECT COST.

TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED AS SOON AS POSSIBLE, BUT NO LATER THAN THE END OF THE NEXT WORKDAY FOLLOWING THE DAY EARTH-DISTURBING ACTIVITIES IN THAT PORTION OF THE SITE HAS COMPLETED. TEMPORARY STABILIZATION SHALL BE STABILIZED WITHIN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY HAS COMPLETED. THE PERMANENT STABILIZATION SHALL BE STABILIZED WITHIN 7 DAYS AFTER THE STABILIZATION IS DEFINED AS COMPLETING ONE (OR MORE) OF THE FOLLOWING: SOIL PREPARATION FOR VEGETATION MULCHING (OR OTHER TEMPORARY NON-VEGETATIVE BMP), SEEDING/PLANTING, OR SCHEDULING STABILIZATION MEASURES TO BE FULLY INSTALLED AND COMPLETED WITHIN THE 7 DAY TIMEFRAME.

ALL EXPOSED SOILS WITHIN 200 FEET AND DRAINING TO A DNR PUBLIC WATERWAYS MUST BE STABILIZED WITHIN 24 HOURS OF TEMPORARILY OR PERMANENTLY CEASING WORK, DURING THE FISH SPAWNING PERIOD.

TEMPORARY STABILIZATION BMPs SHALL ONLY BE IMPLEMENTED WHEN PERMANENT STABILIZATION BMPs CANNOT BE IMPLEMENTED WITHIN THE 7 DAY TIMEFRAME FOR EXPOSED SOILS.

TEMPORARY/PERMANENT DRAINAGE DITCHES & SWALES: THE NORMAL WETTED PERIMETER (2-YEAR, 24-HOUR PRECIPITATION EVENT) OF ANY TEMPORARY OR PERMANENT DRAINAGE DITCH, CHANNEL, OR SWALE THAT DRAINS WATER FROM ANY PORTION OF THE CONSTRUCTION SITE, OR DIVERTS WATER AROUND THE SITE, MUST BE STABILIZED WITHIN THE LAST 200 LINEAL FEET FROM THE PROPERTY EDGE, OR FROM THE POINT OF DISCHARGE INTO ANY SURFACE WATER WITHIN 24 HOURS OF COMPLETION. STABILIZATION ON REMAINING PORTIONS OF THE CHANNEL MUST BE STABILIZED WITHIN 7 DAYS. ALL STORMWATER CONVEYANCE CHANNELS MUST USE EROSION CONTROL AND

NOTE: THE CLARITY OF THESE PLANS DEPENDS UPON THE QUALITY OF THE ORIGINAL PLAN SET AND MAY RESULT IN DISCREPANCIES.

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DATE: _____
 TIME: _____
 SHEET: _____

PROJECT: _____

CITY OF EDEN
 PRAIRIE

MILLER PARK
 OUTDOOR COURTS

EDEN PRAIRIE, MINNESOTA

PROJECT NO: 24-267-FIB
 FILE NAME: 2024-05-20-267-FIB
 DRAWING NO: 001
 REVISION NO: 01/01
 ORIGINAL ISSUE DATE: 03/19/2024
 CLIENT PROJECT NO: _____

TITLE: SWPPP NARRATIVE

SHEET: C1-12

INCLUDING STORMWATER CONVEYANCES SUCH AS CURB AND GUTTER SYSTEMS, OR CONDUITS AND DITCHES UNLESS THERE IS A BYPASS IN PLACE TO PREVENT STORMWATER RUN-ON INTO THE STOCKPILE. STABILIZATION ON TEMPORARY STOCKPILES WITHOUT SIGNIFICANT SILT, CLAY OR ORGANIC COMPONENTS IS NOT REQUIRED.

CONSTRUCTION SITE ENTRANCE/VEHICLE TRACKING: OPERATOR MUST MINIMIZE SEDIMENT FROM LEAVING THE CONSTRUCTION SITE (ON ONTO STREETS WITHIN THE SITE) BY IMPLEMENTING BWPS SUCH AS ROCK PADS, SLASH MULCH, CONCRETE OR STEEL WASH RACKS, OR EQUIVALENT SYSTEMS. STREET SWEEPING MUST BE USED DAILY DURING CONSTRUCTION OPERATIONS IF SUCH BWPS ARE NOT ADEQUATE TO PREVENT SEDIMENT FROM BEING TRACKED ONTO THE STREET. TRACKED SEDIMENT MUST BE REMOVED FROM ALL PAVED SURFACES (ON AND OFF-SITE) WITHIN 24 HOURS OF DISCOVERY, OR SOONER AS DIRECTED BY THE PROJECT OWNER. MULTIPLE STREET SWEEPINGS AT THE OPERATOR'S EXPENSE MAY BE REQUIRED ON ALL ENTRY/EXIT POINTS TO THE SITE AT THE DISCRETION OF THE PROJECT OWNER.

SURFACE WATERS: INCLUDING OFF-SITE AND DOWNSTREAM DRAINAGE DITCHES, CATCH BASINS, AND CONVEYANCE SYSTEMS, MUST BE INSPECTED FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION. THE REMOVAL AND STABILIZATION OF EXPOSED SOILS MUST TAKE PLACE WITHIN SEVEN (7) DAYS OF DISCOVERY UNLESS PRELUDED BY LEGAL, REGULATORY, OR PHYSICAL ACCESS CONSTRAINTS. IF PRELUDED, REMOVAL AND STABILIZATION MUST TAKE PLACE WITHIN SEVEN (7) CALENDAR DAYS OF OBTAINING ACCESS. THE PERMITTEES ARE RESPONSIBLE FOR CONTACTING ALL LOCAL, REGIONAL, STATE AND FEDERAL AGENCIES AND RECEIVING ANY APPLICABLE PERMITS, PRIOR TO CONDUCTING ANY WORK.

INLET PROTECTION: ALL STORM DRAIN INLETS (INCLUDING DOWNGRADE, OFF-SITE) MUST BE PROTECTED BY APPROPRIATE BWPS DURING CONSTRUCTION UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLET HAVE BEEN STABILIZED. SILT FENCE IS NOT AN ACCEPTABLE CATCH BASIN INLET PROTECTION BMP. CONTACTOR SHALL CLEAN, REMOVE AND DISPOSE OF SEDIMENT, AND/OR REPLACE STORM DRAIN INLET PROTECTION ON A ROUTINE BASIS TO ENSURE THE DEVICE IS FULLY FUNCTIONAL PRIOR TO THE NEXT FORECASTED PRECIPITATION EVENT (80% OR GREATER PROBABILITY). INLET PROTECTION SHALL BE IDENTIFIED BY THE PERMITTEES, OR THE DISCRETIONARY AUTHORITY (CITY/COUNTY/TOWNSHIP/MNDOT ENGINEER), WRITTEN CORRESPONDENCE REGARDING THE NEED FOR REMOVAL MUST BE DOCUMENTED IN THE SWPPP.

CHEMICAL TREATMENTS: OPERATOR MUST AMEND THE SWPPP TO INCLUDE THE INTENDED USES AND LOCATIONS OF FLOCCULANTS, POLYMERS, AND OTHER SEDIMENTATION TREATMENT CHEMICALS. CHEMICAL TREATMENTS MAY ONLY BE APPLIED IN AREAS WHERE TREATED STORMWATER IS DIRECTED TO A RECEIVING SEDIMENT CONTROL SYSTEM (NOT DIRECTLY DISCHARGED TO NATURAL WATER BODIES). THIS INCLUDES DOCUMENTING THE EXPECTED SOIL TYPES, MANUFACTURER'S RECOMMENDED DOSING, APPLICATION RATES/QUANTITIES, AND MONITORING RESULTS (TURBIDITY, PH).

TEMPORARY & PERMANENT SEDIMENT CONTROL BMPS

DEWATERING, STREAM DIVERSION, AND BASIN DRAINING
NEW POND GRADING WILL REQUIRE SITE DEWATERING, WHEN DEWATERING OR BASIN DRAINING IS REQUIRED. THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN AND NARRATIVE TO THE PROJECT ENGINEER FOR APPROVAL PRIOR TO UNDERTAKING THESE ACTIVITIES. DEWATERING PLAN MUST INCLUDE BWPS TO PREVENT SEDIMENT TRANSPORT, EROSION, AND ADVERSE IMPACTS ON STREAM RECEIVING WATERS. THE DEWATERING PLAN MUST ALSO INCLUDE A SPECIFIC PLAN FOR THESE ACTIVITIES. PERMITTEES WILL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS. DEWATERING ACTIVITIES ON RECEIVING WATERBODIES MUST IMPLEMENT ALL NECESSARY BMPs TO MEET THE ASSIGNED WQA. THE DEWATERING PLAN AND DNR APPROPRIATIONS PERMIT WILL BECOME PART OF THE SWPPP. WATER THAT IS TURBID OR HAS SEDIMENT MUST BE DISCHARGED TO A TEMPORARY OR PERMANENT SEDIMENTATION BASIN (AND/OR OTHER APPROPRIATE BWPS) ON THE PROJECT SITE WHENEVER POSSIBLE. DISCHARGE FROM THE TEMPORARY OR PERMANENT SEDIMENTATION BASIN MUST BE VISUALLY CHECKED TO ENSURE ADEQUATE TREATMENT IS OBTAINED IN THE BASIN AND THAT NUISANCE CONDITIONS (SEE MINN. R. 7050.0210, SUBP. 2), IMPACTS TO WETLANDS, AND EROSION IN RECEIVING CHANNELS OR ON DOWNSLOPE RIPRAP, SANDBAGS, PLASTIC SHEETING, OR OTHER ACCEPTED ENERGY DISSIPATION MEASURES. ADEQUATE SEDIMENTATION CONTROL MEASURES AND ADDITIONAL FILTRATION BMPs ARE REQUIRED FOR DISCHARGE WATER THAT CONTAINS SUSPENDED SOLIDS, OIL, OR GREASE.

PERMIT TERMINATION CONDITIONS
PERMIT TERMINATION CONDITIONS ARE ACHIEVED WHEN THE FOLLOWING FOUR PARAMETERS ARE COMPLETED, PRIOR TO SUBMISSION OF THE NOTICE OF TERMINATION TO MPCA.

- 70% VEGETATIVE COVER, ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND ALL EXPOSED SOILS ARE STABILIZED BY UNIFORM LIVE PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70% OVER THE ENTIRE PERVIOUS SURFACE AREA, OR OTHER EQUIVALENT MEANS NECESSARY TO PREVENT SOIL FAILURE UNDER EROSION CONDITIONS REFER TO PART 13.7 IF THE PROJECT IS ON AGRICULTURAL LAND, FOR RESIDENTIAL CONSTRUCTION ONLY. PLEASE REFER TO PART 13.6 OF THE NPDES PERMIT.
- FINAL CLEAN OUT OF PERMANENT STORMWATER MANAGEMENT SYSTEMS & CONVEYANCE SYSTEMS; ALL ACCUMULATED SEDIMENT MUST BE REMOVED FROM PERMANENT STORMWATER MANAGEMENT SYSTEMS, CONVEYANCE SYSTEMS, AND DITCHES MUST BE STABILIZED WITH PERMANENT COVER. ALL SYSTEMS MUST OPERATE AS DESIGNED.
- REMOVAL OF ALL TEMPORARY SYNTHETIC BMPs; ALL TEMPORARY SYNTHETIC AND STRUCTURAL EROSION PREVENTION AND SEDIMENT CONTROL BMPs (SUCH AS SILT FENCE) MUST BE REMOVED ON THE PORTIONS OF THE SITE FOR WHICH THE PERMITTEE IS RESPONSIBLE. BMPs DESIGNED TO DECOMPOSE ON SITE (SUCH AS SOME COMPOST LOGS) MAY BE LEFT IN PLACE.

4. OPERATOR PROVIDES THE OWNER ALL INSPECTION AND SWPPP AMENDMENT RECORDS FOR THE PROJECT. OWNER IS RESPONSIBLE FOR KEEPING ALL RECORDS (AS DEFINED IN PART 24.5) ON FILE FOR THREE YEARS AFTER SUBMITTAL OF THE NOTICE OF TERMINATION.

THE CO-PERMITTEES (OWNER AND OPERATOR) MUST SIGN AND SUBMIT THE COMPLETED NOT TO THE MPCA WITHIN 30 DAYS AFTER SELLING/LEGALLY TRANSFERRING THE PROPERTY OR FINAL STABILIZATION IS ACHIEVED. PERMITTEES(S) MAY TERMINATE PERMIT COVERAGE PRIOR TO THE PROJECT COMPLETION IF THE CONDITIONS IN PART 4 OF THE NPDES-CSW PERMIT ARE MET.



NOTE:
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DATE: _____ LIC. NO. _____
BY: _____ LIC. NO. _____

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

DATE: _____ LIC. NO. _____
BY: _____ LIC. NO. _____

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PROJECT: _____

**CITY OF EDEN
PRAIRIE
MILLER PARK
OUTDOOR COURTS**

EDEN PRAIRIE MINNESOTA

DATE: _____ REVISION OR ISSUE: _____ BY: _____

DATE	REVISION OR ISSUE	DESCRIPTION	BY

PROJECT NO.	24-267-RB
FILE NAME	250905-01-SWPPP
DESIGNED BY	ASU
CHECKED BY	ASU
DRAWN BY	ASU
DATE	04/11/2025
CLIENT PROJECT NO.	

TITLE

SWPPP NARRATIVE

SHEET

C1-13



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 SHEET NO.: _____ U.S. NO.: _____
 SHEET NO.: _____ U.S. NO.: _____
 SHEET NO.: _____ U.S. NO.: _____
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 LANDSCAPE ARCHITECT UNDER THE LAWS OF THE
 STATE OF MINNESOTA.

PROJECT:
**CITY OF EDEN
 PRAIRIE
 MILLER PARK
 OUTDOOR COURTS**

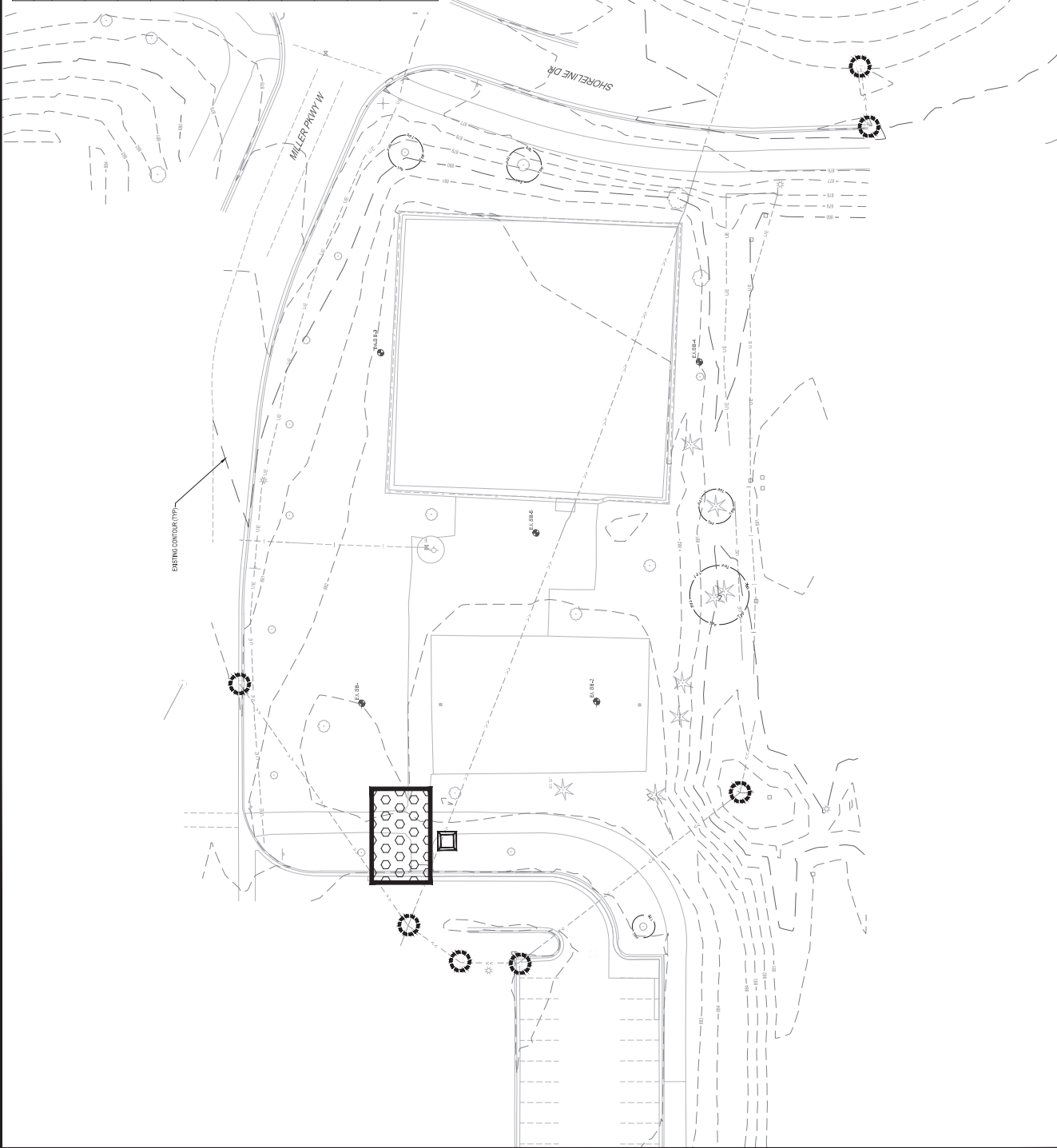
EDEN PRAIRIE MINNESOTA
 DATE: _____
 REVISION OR ISSUE:
 BY:
 PROJECT NO.: _____
 FILE NAME: _____
 DRAWING NO.: _____
 REVISION NO.: _____
 REVISION BY: _____
 ORIGINATOR ISSUE DATE: _____
 CLIENT PROJECT NO.: _____

TITLE:
**PRE-
 CONSTRUCTION
 SWPPP**

SHEET:
C1-30

EROSION CONTROL LEGEND	
SYMBOL	DESCRIPTION
	RANDOM ROUGH GRAVEL
	PERIMETER CONTROL
	BOLT FENCE PRE-ASSEMBLED
	STORM DRAIN INLET PROTECTION
	STABILIZED CONSTRUCTION EXIT
	CONCRETE WASHOUT AREA
	EXISTING DRAINAGE ARROW
	PROPOSED DRAINAGE ARROW
	EXISTING CONTOUR (MINOR INTERVAL)
	EXISTING CONTOUR (MAJOR INTERVAL)

PERIMETER CONTROL CAN BE IN FENCE OR SEEDMENT CONTROL LOG.
 SEE SITE RESTORATION PLAN FOR FURTHER DETAILS.
 THE USER AGREES THAT THIS PLAN SPECIFICATION FOR
 SUPERVISION AND THAT IT IS A DAILY LICENSED ARCHITECT
 REGISTERED UNDER THE LAWS OF THE
 STATE OF MINNESOTA.





NOTE:
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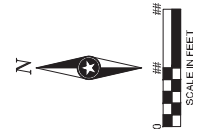
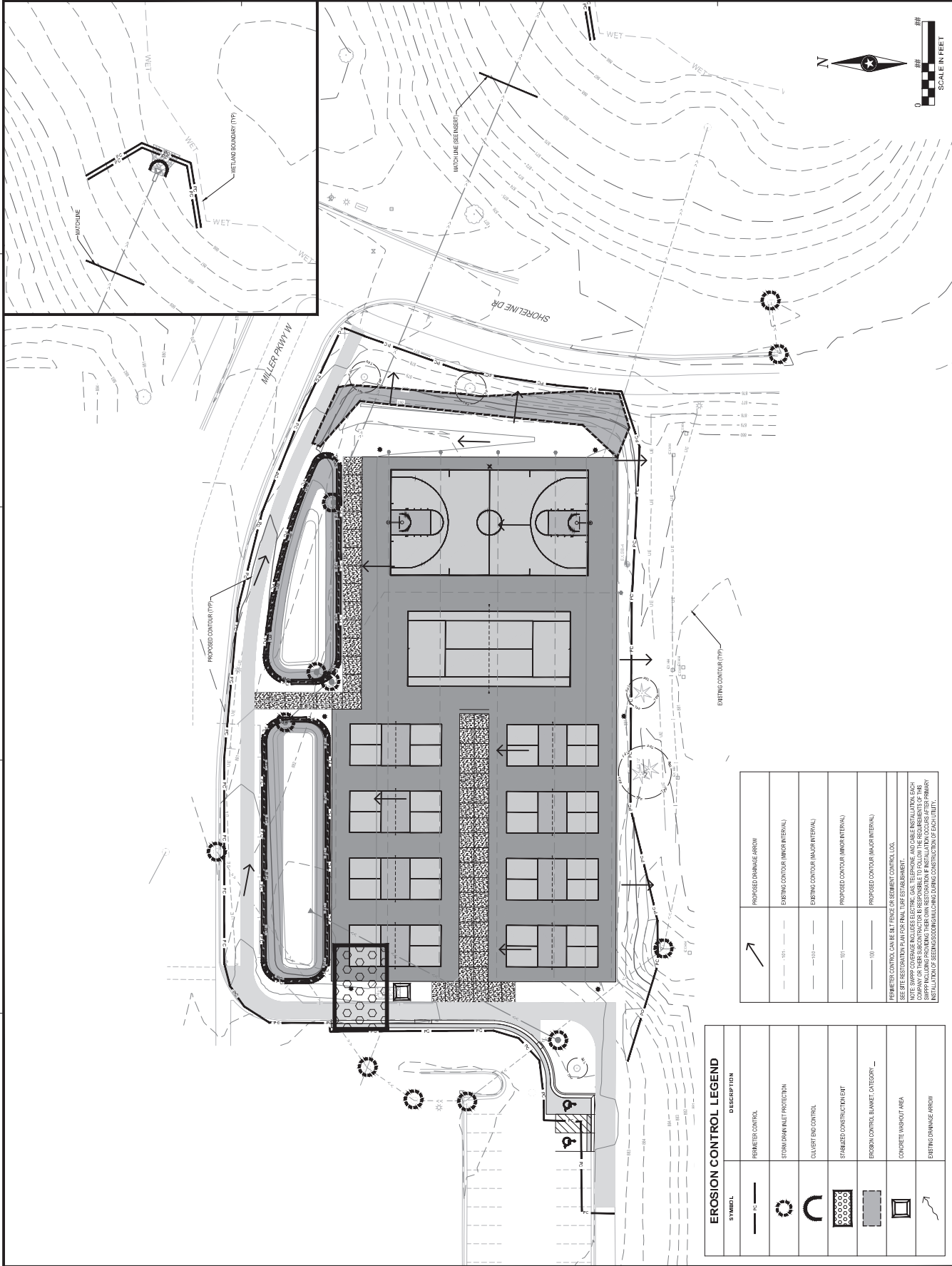
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 PROJECT: _____ U.S. NO. _____

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CITY OF EDEN PRAIRIE
MILLER PARK OUTDOOR COURTS

DATE	REVISION OR CHANGE	MINNESOTA
BY	DESCRIPTION	
PROJECT NO.	24-287-EB	
FILE NAME	25096-01-SWPPP	
DRAWN BY	AGU	
CHECKED BY	AKW	
DATE	03/19/2024	
CLIENT PROJECT NO.		
TITLE		



→	PROPOSED DRAINAGE ARROW
---	EXISTING CONTOUR (MINOR INTERVAL)
---	EXISTING CONTOUR (MAJOR INTERVAL)
---	PROPOSED CONTOUR (MINOR INTERVAL)
---	PROPOSED CONTOUR (MAJOR INTERVAL)

CONTOUR CONTROL CAN BE AFFECTIVE FOR EROSION CONTROL LOCATIONS. SEE THE SECTIONS FOR AN EXAMPLE OF SETBACKS AND SPACING.
 NOTE: SWPPP COVERAGE INCLUDES ELECTRICAL, GAS, TELEPHONE AND CABLE INSTALLATION. EACH COMPANY OR THEIR SUBCONTRACTOR IS RESPONSIBLE TO FOLLOW THE REQUIREMENTS OF THEIR CONTRACT AND TO PROVIDE PROTECTION AS NEEDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF SETBACKS DURING CONSTRUCTION OF EACH UTILITY.

SYMBOL	DESCRIPTION
—	PERMEABLE CONTROL
⊗	STORM DRAIN INLET PROTECTION
⊕	COLLECT END CONTROL
▢	STABILIZED CONSTRUCTION EOT
▣	EROSION CONTROL BLANKET CATEGORY 1
▤	CONCRETE WASHOUT AREA
→	EXISTING DRAINAGE ARROW



SYMBOL	DESCRIPTION
	REMOVE BITUMINOUS PAVEMENT
	REMOVE CONCRETE PAVEMENT
	REMOVE FENCE
	EXISTING DECIDUOUS TREE
	EXISTING CONIFEROUS TREE
	EXISTING DECIDUOUS TREE TO BE REMOVED
	EXISTING CONIFEROUS TREE TO BE REMOVED

NOTE:
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DATE: _____
 DESIGNED BY: _____
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 PROJECT NO.: _____
 SHEET NO.: _____

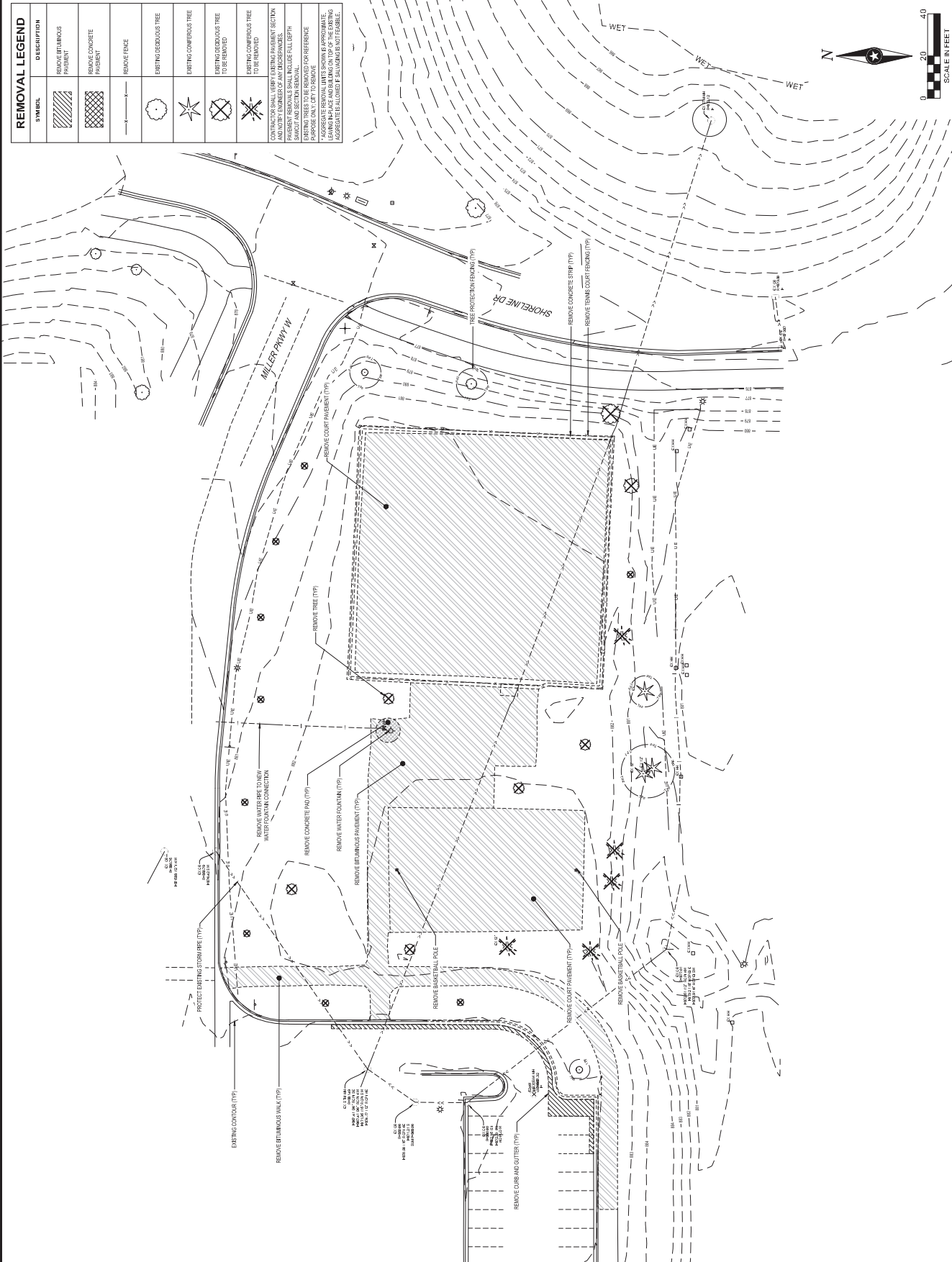
**CITY OF EDEN
 PRAIRIE
 MILLER PARK
 OUTDOOR COURTS**

EDEN PRAIRIE MINNESOTA
 REVISIONS OR SHEETS: _____
 DATE: _____
 DESCRIPTION: _____
 BY: _____

PROJECT NO. 24-267-R/B
 FILE NAME 2/29/24 C2-10-EXT
 DRAWN BY ASG
 CHECKED BY KMM
 ORIGINAL ISSUE DATE 02/19/2024
 CLIENT PROJECT NO. _____

TITLE
**EXISTING SITE
 AND REMOVALS
 PLAN**

SHEET
C2-10



44 894 93022229 8/10 1/14

PAVEMENT LEGEND	
SYMBOL	DESCRIPTION
	BRICK PAVEMENT
	ATHLETIC COURT BRICK PAVEMENT
	CONCRETE WALK
	CONCRETE CURB AND GUTTER
	4 FT CHAIN LINK FENCING
	6 FT CHAIN LINK FENCING
	10 FT CHAIN LINK FENCING



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

DATE: _____

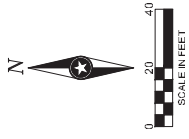
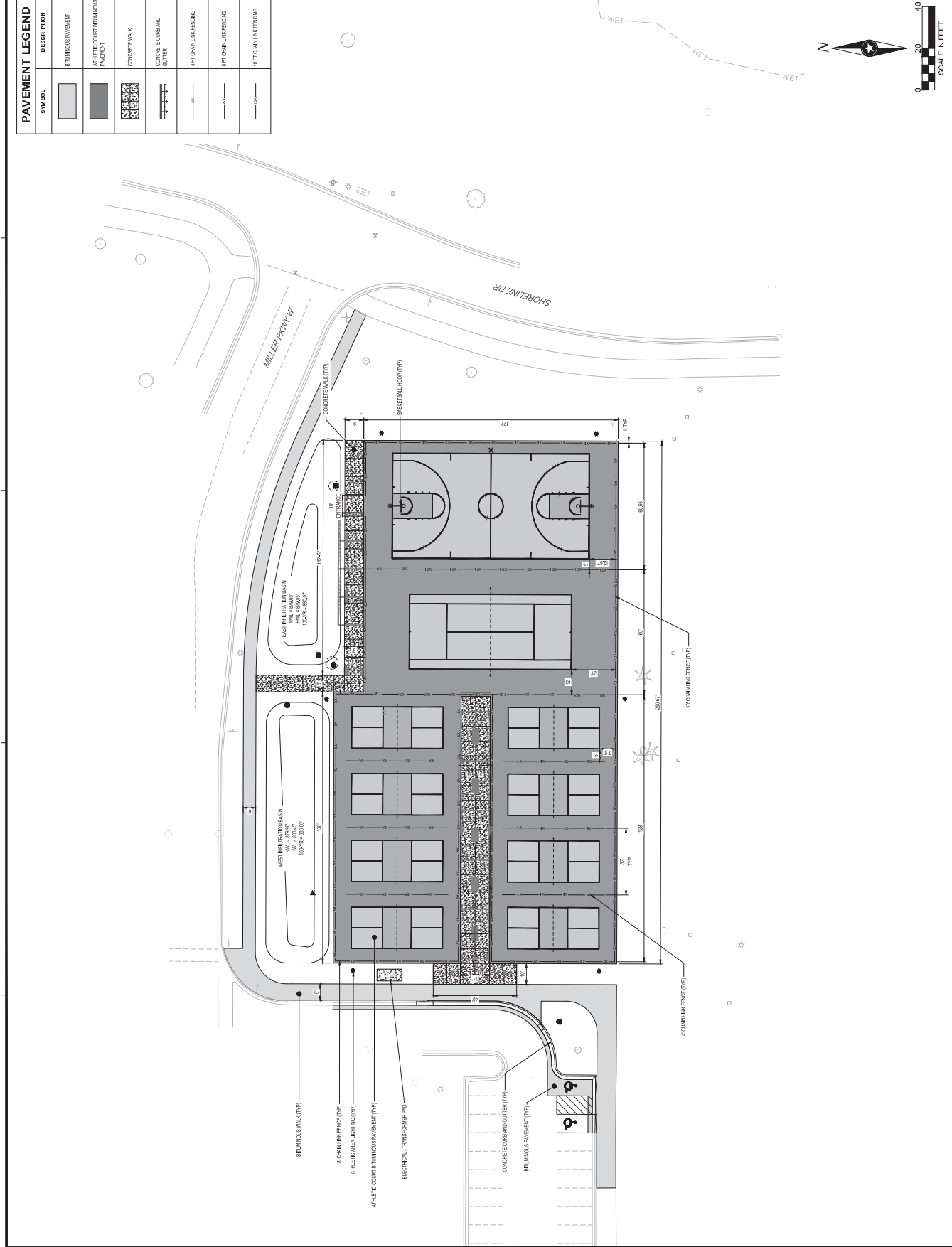
CITY OF EDEN PRAIRIE
MILLER PARK
OUTDOOR COURTS

DATE	REVISION OR CHANGE	BY

PROJECT NO. 24-28715B
 FILE NAME 24090431.B1E
 DRAWN BY ADJ
 CHECKED BY ADJ
 DESIGNED BY ADJ
 ORIGINAL ISSUE DATE 04/19/2024
 CLIENT PROJECT NO.

TITLE **SITE PLAN**

SHEET **C3-10**





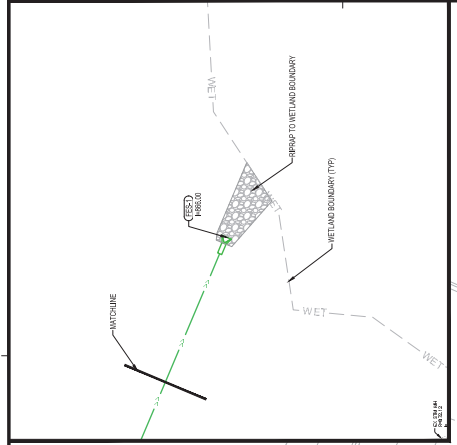
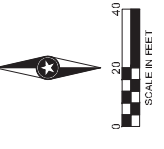
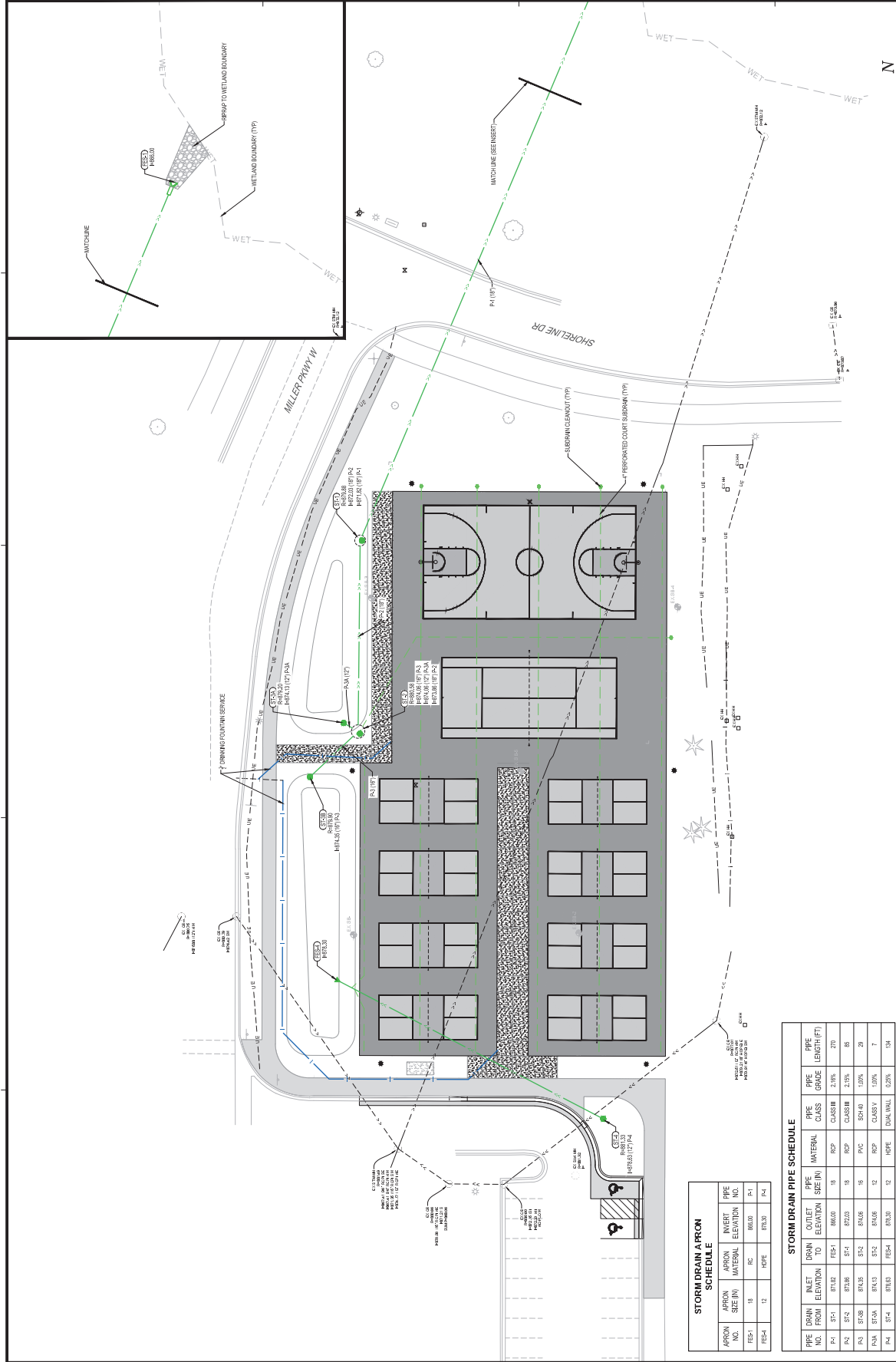
NOTE:
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CITY OF EDEN PRAIRIE
MILLER PARK OUTDOOR COURTS
EDEN PRAIRIE, MINNESOTA

PROJECT: EDEN PRAIRIE
DATE: 2/4/2017
DESCRIPTION: UTILITY PLAN
BY: [Redacted]
PROJECT NO.: 24-287-518
FILE NAME: 2/20/16/03/518E
DRAWN BY: ASG
CHECKED BY: KMM
REVISION DATE: 02/19/2017
CLIENT PROJECT NO.:

TITLE: UTILITY PLAN
SHEET: C3-20



STORM DRAIN APRON SCHEDULE

APRON NO.	APRON SIZE (IN)	APRON MATERIAL	INVERT ELEVATION	PIPE SIZE (IN)	PIPE MATERIAL	PIPE SLOPE (IN/FT)	PIPE LENGTH (FT)
P1	12	HOPE	873.00	12	HOPE	0.20%	104
P2	12	HOPE	873.30	12	HOPE	0.20%	104

STORM DRAIN PIPE SCHEDULE

PIPE NO.	PIPE SIZE (IN)	PIPE MATERIAL	PIPE CLASS	PIPE SLOPE (IN/FT)	PIPE LENGTH (FT)
P1	12	RCP	CLASS III	2.15%	270
P2	12	RCP	CLASS III	2.15%	85
P3	12	PVC	500/40	1.00%	28
P4	12	RCP	CLASS III	1.00%	7
P5	12	HOPE	DUAL WALL	0.20%	104

STORM DRAIN STRUCTURE SCHEDULE

STRUCTURE NO.	STRUCTURE TYPE	STRUCTURE SIZE (IN)	STRUCTURE MATERIAL	CASTING MATERIAL	STRUCTURE HEIGHT (IN FT)	TOP OF CASTING ELEVATION	OUTLET INVERT ELEVATION	OUTLET PIPE
S1	MANHOLE	48.0	RC	NEWARK-R80	4.53	873.88	873.38	P1
S2	MANHOLE	48.0	RC	NEWARK-R80	6.73	883.08	873.08	P1
S3	MANHOLE	48.0	PVC	W/CRACK FIBROSS	5.67	873.20	874.15	P2
S4	MANHOLE	48.0	PVC	W/CRACK FIBROSS	5.55	873.00	874.55	P3
S5	MANHOLE	48.0	PVC	FRAME DATE COVER	2.78	871.33	873.5	P4



NOTE:
THE CLARITY OF THESE PLANS DEPENDS ON THE ORIGINAL PLAN SET AND MAY BE LIMITED BY THE REVISIONS TO THE ORIGINAL PLAN SET. THESE PLANS ARE NOT TO BE CONSIDERED A SUBSTITUTE FOR A PROFESSIONAL ARCHITECTURAL OR ENGINEERING DESIGN. THESE PLANS ARE PRELIMINARY AND ARE NOT TO BE USED FOR CONSTRUCTION. THESE PLANS ARE NOT TO BE USED FOR ANY OTHER PURPOSE. THESE PLANS ARE NOT TO BE USED FOR ANY OTHER PURPOSE.

DATE: _____
DRAWN BY: _____
CHECKED BY: _____
DATE: _____
DRAWN BY: _____
CHECKED BY: _____

PROJECT:
**CITY OF EDEN PRAIRIE
MILLER PARK
OUTDOOR COURTS**
EDEN PRAIRIE MINNESOTA

BY:
DATE: _____
REVISIONS: _____

NO.	DATE	DESCRIPTION
1	2/1/2023	ISSUED FOR PERMIT
2	2/1/2023	ISSUED FOR PERMIT
3	2/1/2023	ISSUED FOR PERMIT
4	2/1/2023	ISSUED FOR PERMIT
5	2/1/2023	ISSUED FOR PERMIT
6	2/1/2023	ISSUED FOR PERMIT
7	2/1/2023	ISSUED FOR PERMIT
8	2/1/2023	ISSUED FOR PERMIT
9	2/1/2023	ISSUED FOR PERMIT
10	2/1/2023	ISSUED FOR PERMIT
11	2/1/2023	ISSUED FOR PERMIT
12	2/1/2023	ISSUED FOR PERMIT
13	2/1/2023	ISSUED FOR PERMIT
14	2/1/2023	ISSUED FOR PERMIT
15	2/1/2023	ISSUED FOR PERMIT
16	2/1/2023	ISSUED FOR PERMIT
17	2/1/2023	ISSUED FOR PERMIT
18	2/1/2023	ISSUED FOR PERMIT
19	2/1/2023	ISSUED FOR PERMIT
20	2/1/2023	ISSUED FOR PERMIT

FILE NO. 24-267 FEB
 FILE NAME 2/26/2023 GRADING
 DRAWN BY AGD
 CHECKED BY AGD
 ORIGINAL ISSUE DATE 02/21/2023
 CLIENT PROJECT NO.

TITLE
GRADING PLAN

SHEET
C4-10

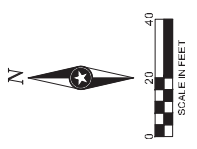
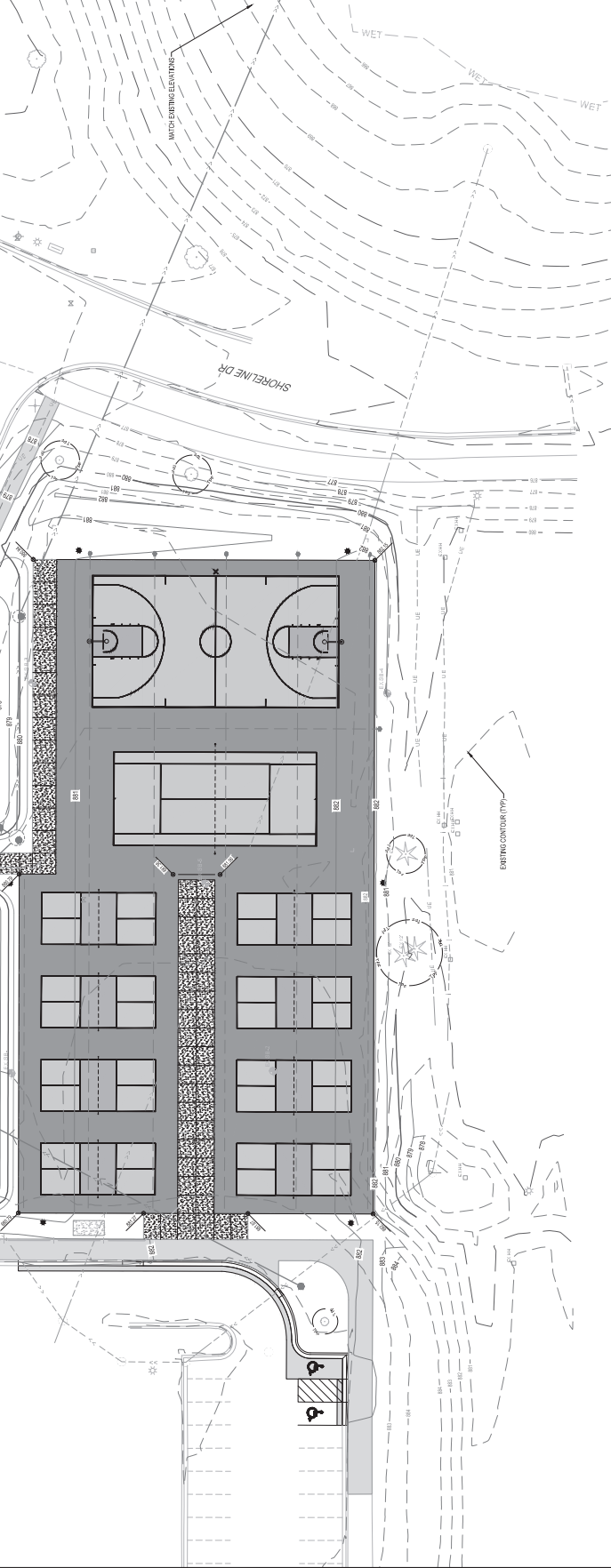
GRADING LEGEND

--- 10' ---	EXISTING CONTOUR (MINOR INTERVAL)
--- 5' ---	EXISTING CONTOUR (MAJOR INTERVAL)
--- 10' ---	PROPOSED CONTOUR (MINOR INTERVAL)
--- 5' ---	PROPOSED CONTOUR (MAJOR INTERVAL)
	PROPOSED SPOT ELEVATION
	PROPOSED TOP/BACK OF CURB, TOP OF TURNDOWN AND SPOT ELEVATION
	PROPOSED TOP OF RETAINING WALL (TYP) AND BOTTOM OF RETAINING WALL (BT)
	SURFACE GRADE - DIRECTION
	X-AXIS

GENERAL GRADING NOTES

PROPOSED CONTOURS AND PROPOSED SURFACE GRADES ARE NOT TO BE CONSIDERED A SUBSTITUTE FOR A PROFESSIONAL ARCHITECTURAL OR ENGINEERING DESIGN. THESE PLANS ARE PRELIMINARY AND ARE NOT TO BE USED FOR CONSTRUCTION. THESE PLANS ARE NOT TO BE USED FOR ANY OTHER PURPOSE.

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THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE: _____
BY: _____

PROJECT: _____

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SHEET NO. 10 OF 10

CITY OF EDEN PRAIRIE

MILLER PARK

OUTDOOR COURTS

EDEN PRAIRIE, MINNESOTA

DATE	REVISION OR CHANGE	DESCRIPTION	BY

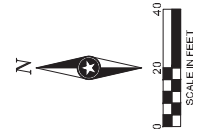
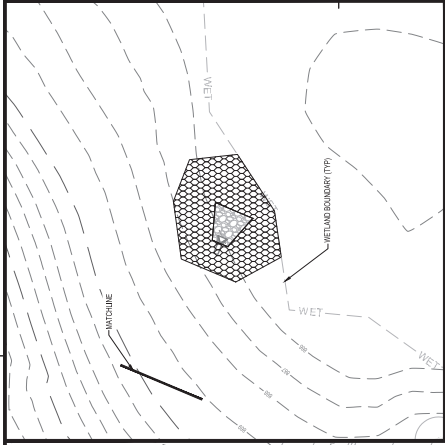
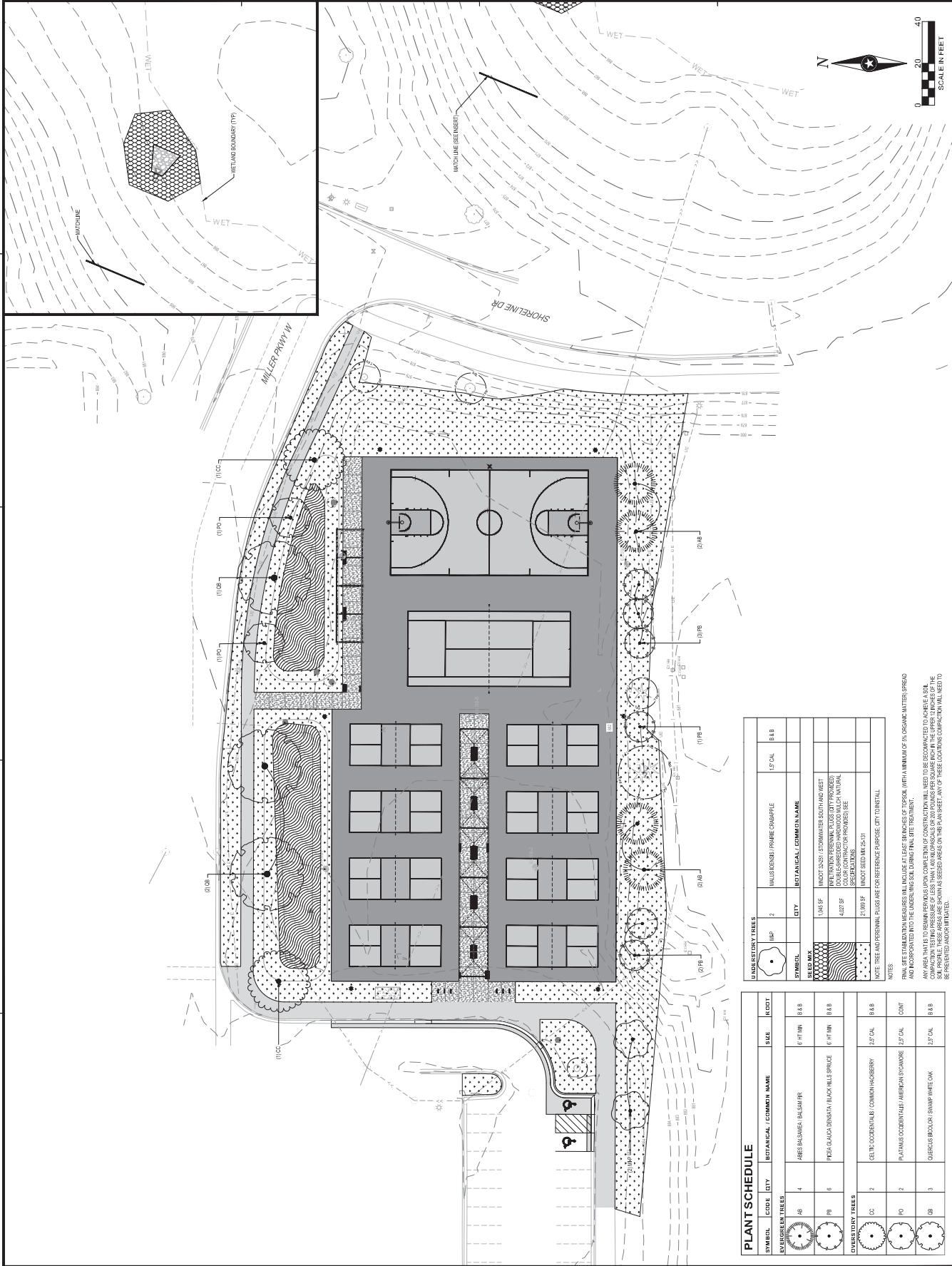
PROJECT NO. 24-267-FIB
FILE NAME 240605-EDEN
DRAWN BY ASU
CHECKED BY AKM
DATE PLOTTED 06/19/2024
CLIENT PROJECT NO. _____

TITLE

PLANTING AND RESTORATION PLAN

SHEET

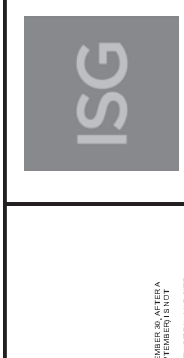
C5-10



SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	ROOT
(Symbol)	IMP	2	MILLER BENSER PRAIRIE CRABAPPLE	1.5" CAL	B&B
(Symbol)	SP	1,000 SF	MOIST SANDS (E) CORMWATER SOUTH AND WEST		
(Symbol)	SP	4,000 SF	DOOR-DRYED HARDWOOD MULCH (W/ 10% COMPOST)		
(Symbol)	SP	2,100 SF	MOIST SEED MIX (S-31)		

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	ROOT
(Symbol)	EB	4	REESE BALSAMIC SALICATOR	6" FT/IN	B&B
(Symbol)	PR	6	PIPER-GLADICE BENSATA / BLACK HILLS SPRUCE	6" FT/IN	B&B
(Symbol)	OC	2	CELTRIC DOCKERSHIRE / COMMON HACKBERRY	2.5" CAL	B&B
(Symbol)	PO	2	PAJANUS DOCKERSHIRE / AMERICAN STYVADORE	1.5" CAL	CONT
(Symbol)	OB	3	QUERCUS BRUCOLI / SWAMP WHITE OAK	2.5" CAL	B&B

NOTES:
1. THIS SITE IS A PRAIRIE RESTORATION PROJECT. PLANTINGS SHOULD BE DONE IN ACCORDANCE WITH THE MINNESOTA WETLANDS ACT AND ALL APPLICABLE REGULATIONS.
2. ANY AREA THAT IS SHOWN AS A WETLAND OR WITHIN A WETLAND SHALL BE RESTORED TO ORIGINAL CONDITIONS OR BETTER.
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NOTE: THE CLARITY OF THESE PLANS DEPENDS UPON THE ACCURACY OF THE SURVEY. THIS IS NOT AN ORIGINAL PLAN SET AND MAY RESULT IN AN UNDESIRABLE RESULT.

THESE DRAWINGS SHALL BE THE PROPERTY OF THE ARCHITECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY OF EDEN AND THE STATE OF MINNESOTA.

DATE	REVISIONS/SCHEDULE	BY

PROJECT: CITY OF EDEN PRAIRIE MILLER PARK OUTDOOR COURTS

EDEN PRAIRIE MINNESOTA

CITY OF EDEN PRAIRIE MILLER PARK OUTDOOR COURTS

EDEN PRAIRIE MINNESOTA

DATE: _____ FILE NO: _____
 SHEET: _____ U.S. NO: _____

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PART 1: SEEDING METHODOLOGY

1. THE CONTRACTOR SHALL SOW SEED BETWEEN OCT. 1 - NOVEMBER 30, AFTER A FROST FREEZING HAS OCCURRED. SUMMER SEEDING (JULY - SEPTEMBER) IS NOT PERMITTED.
2. THE CONTRACTOR SHALL SEED AFTER ALL DRAINAGE, CONSTRUCTION, AND SITE WORK HAS BEEN COMPLETED. SEEDING SHALL BE ACCORDING TO THE SPECIFICATIONS AND SITE PLAN. SEEDING SHALL BE COMPLETED WITHIN 14 DAYS AFTER GROUND PREPARATION IS COMPLETE.
3. SEEDING SHALL BE COMPLETED WITHIN 14 DAYS AFTER GROUND PREPARATION IS COMPLETE. SEEDING SHALL BE COMPLETED WITHIN 14 DAYS AFTER GROUND PREPARATION IS COMPLETE.
4. THE CONTRACTOR SHALL BROADCAST OR DRILL SEED.
5. HAND OR MECHANICAL BROADCASTING SEEDS SHALL BE SEEDS THAT HAVE A MINIMUM OF 1/8" OF COATING AND ARE NOT HYDROPHOBIC. SEEDS THAT DO NOT MEET THESE REQUIREMENTS SHALL BE REJECTED. SEEDS THAT DO NOT MEET THESE REQUIREMENTS SHALL BE REJECTED. SEEDS THAT DO NOT MEET THESE REQUIREMENTS SHALL BE REJECTED.

PART 2: SEED PREPARATION

1. THE CONTRACTOR SHALL ASSESS THE SITE FOR THREATS TO NATIVE PRAIRIE PLANTS. THE CONTRACTOR SHALL REMOVE OR DESTROY ALL THREATS TO NATIVE PRAIRIE PLANTS.
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TITLE

NOTES AND DETAILS

C5-20

SHEET

SITE RESTORATION NOTES

PART 1: PREPARATION

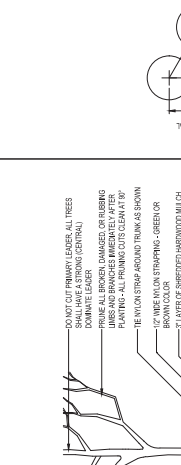
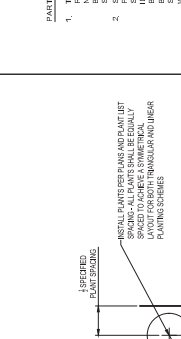
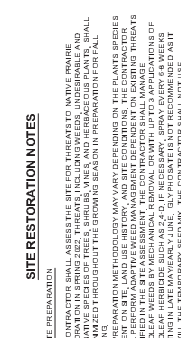
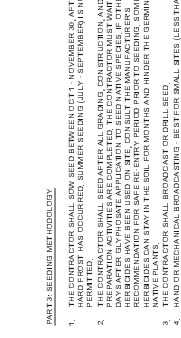
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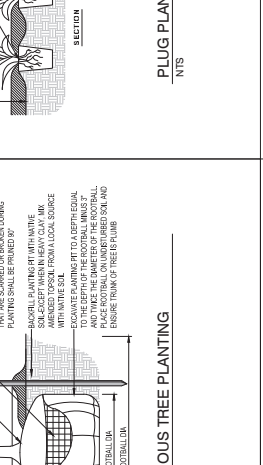
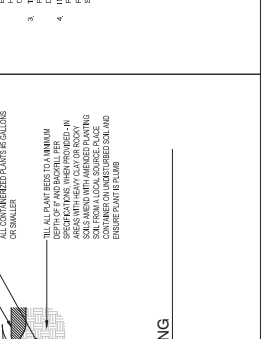
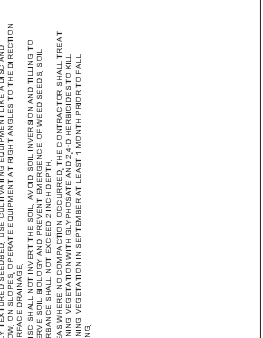
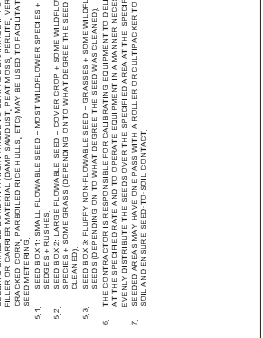
PLANTING NOTES

1. COORDINATE LOCATION OF ALL UTILITIES (LINES, DUCTS, CONDUITS, SEWER, ETC.) WITH LOCATIONS OF PROPOSED LANDSCAPE ELEMENTS (TREES, BUSHES, PLANTS) TO AVOID CONFLICTS. PROVIDE A SCHEDULE OF WORK FOR LANDSCAPE ELEMENTS TO BE INSTALLED PRIOR TO UTILITIES WORK.
2. REMOVE ALL EXISTING PLANTS, BUSHES, AND MATERIALS IN CONTACT WITH PLANT GROWTH MEDIA.
3. FROM PLANTING PITS AND BEDS PRIOR TO BACKFILLING WITH PLANTING MIX.
4. EQUIPMENT SHALL BE USED TO AMEND SOIL DEPTH IN PLANTING BEDS AND SUBSOIL IN PLANTING BEDS.
5. FIELD STAKE PLANTING ACCORDING TO PLAN. OWNERS REPRESENTATIVE SHALL VERIFY PLANTING DEPTH AND BIODIVERSITY OF PLANTING MIX.
6. ALL PLANT MATERIALS SHALL BE TRUE TO THEIR SPECIFIED NAME AND SIZE AS INDICATED IN THE PLANT SCHEDULE.
7. PLANTING PLAN AND THE NUMBER OF PLANTS IN THE SCHEDULE, THE PLANTING PLAN SHALL BE TRUE TO THE NUMBER OF PLANTS IN THE SCHEDULE.
8. ANY PROPOSED SUBSTITUTION OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, AND GROWTH HABIT AS SPECIFIED IN THE SCHEDULE.
9. REPRESENTATIVE SHALL VERIFY PLANTING DEPTH AND BIODIVERSITY OF PLANTING MIX. (NURSERY, PLANTER, AND SOIL) SHALL BE APPROVED BY THE CONTRACTOR.
10. ALL PLANT MATERIALS SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN A LIVE CONDITION AT THE TIME OF PLANTING. PLANTING MATERIALS SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN A LIVE CONDITION AT THE TIME OF PLANTING.
11. TREE PLANTING SHALL BE COMPLETED WITHIN 14 DAYS AFTER GROUND PREPARATION IS COMPLETE.
12. HAVE A STRONG CENTRAL LEADER SHALL BE REJECTED.
13. ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER. UNDESIRABLE TREES (IF ANY) SHALL BE REMOVED AND REPLACED WITHIN 14 DAYS AFTER GROUND PREPARATION IS COMPLETE. TREE PLANTING SHALL BE COMPLETED WITHIN 14 DAYS AFTER GROUND PREPARATION IS COMPLETE.
14. MULCHING MATERIAL SHALL BE SHREDDED HANDWOOD MULCH, WITH NO RINDS OR TWIGS. MULCHING MATERIAL SHALL BE SHREDDED HANDWOOD MULCH, WITH NO RINDS OR TWIGS.
15. CONTRACTOR SHALL PROVIDE SAMPLE OF MULCH TO BE APPROVED BY THE LANDSCAPE ARCHITECT.
16. LANDSCAPE ARCHITECT'S AND OWNER'S AND SHALL BE COMPLETED BY THE CONTRACTOR.
17. ADJUST SPACING OF PLANT MATERIALS AROUND ADJACENT UTILITY STRUCTURES.

PLUG PLANTING



DECIDUOUS TREE PLANTING

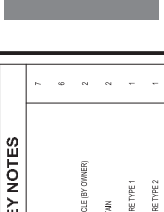


PLANTING NOTES

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12. HAVE A STRONG CENTRAL LEADER SHALL BE REJECTED.
13. ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER. UNDESIRABLE TREES (IF ANY) SHALL BE REMOVED AND REPLACED WITHIN 14 DAYS AFTER GROUND PREPARATION IS COMPLETE. TREE PLANTING SHALL BE COMPLETED WITHIN 14 DAYS AFTER GROUND PREPARATION IS COMPLETE.
14. MULCHING MATERIAL SHALL BE SHREDDED HANDWOOD MULCH, WITH NO RINDS OR TWIGS. MULCHING MATERIAL SHALL BE SHREDDED HANDWOOD MULCH, WITH NO RINDS OR TWIGS.
15. CONTRACTOR SHALL PROVIDE SAMPLE OF MULCH TO BE APPROVED BY THE LANDSCAPE ARCHITECT.
16. LANDSCAPE ARCHITECT'S AND OWNER'S AND SHALL BE COMPLETED BY THE CONTRACTOR.
17. ADJUST SPACING OF PLANT MATERIALS AROUND ADJACENT UTILITY STRUCTURES.

KEY NOTES

- (A) BENCH
- (B) BENCH
- (C) TRANSFER TABLE BY OWNER
- (D) DRAWING COLUMN
- (E) SHADE STRUCTURE TYPE 1
- (F) SHADE STRUCTURE TYPE 2
- (G) RECTANGULAR PADDOCK (BY OWNER)



NOTE:
THE CLARITY OF THESE PLANS DEPENDS ON THE QUALITY OF THE ORIGINAL PLAN SET. ANY CHANGES TO THE ORIGINAL PLAN SET AND MAY RESULT IN A DESIGN ERROR.

THESEY CENTER THAT THIS IS AN ARCHITECTURAL REPORT PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DAILY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE: _____ U.S. NO. _____
 PROJECT: _____ U.S. NO. _____
 SHEET NO. _____ U.S. NO. _____

SHEET NO. 10 OF 15 - SEE DRAWING
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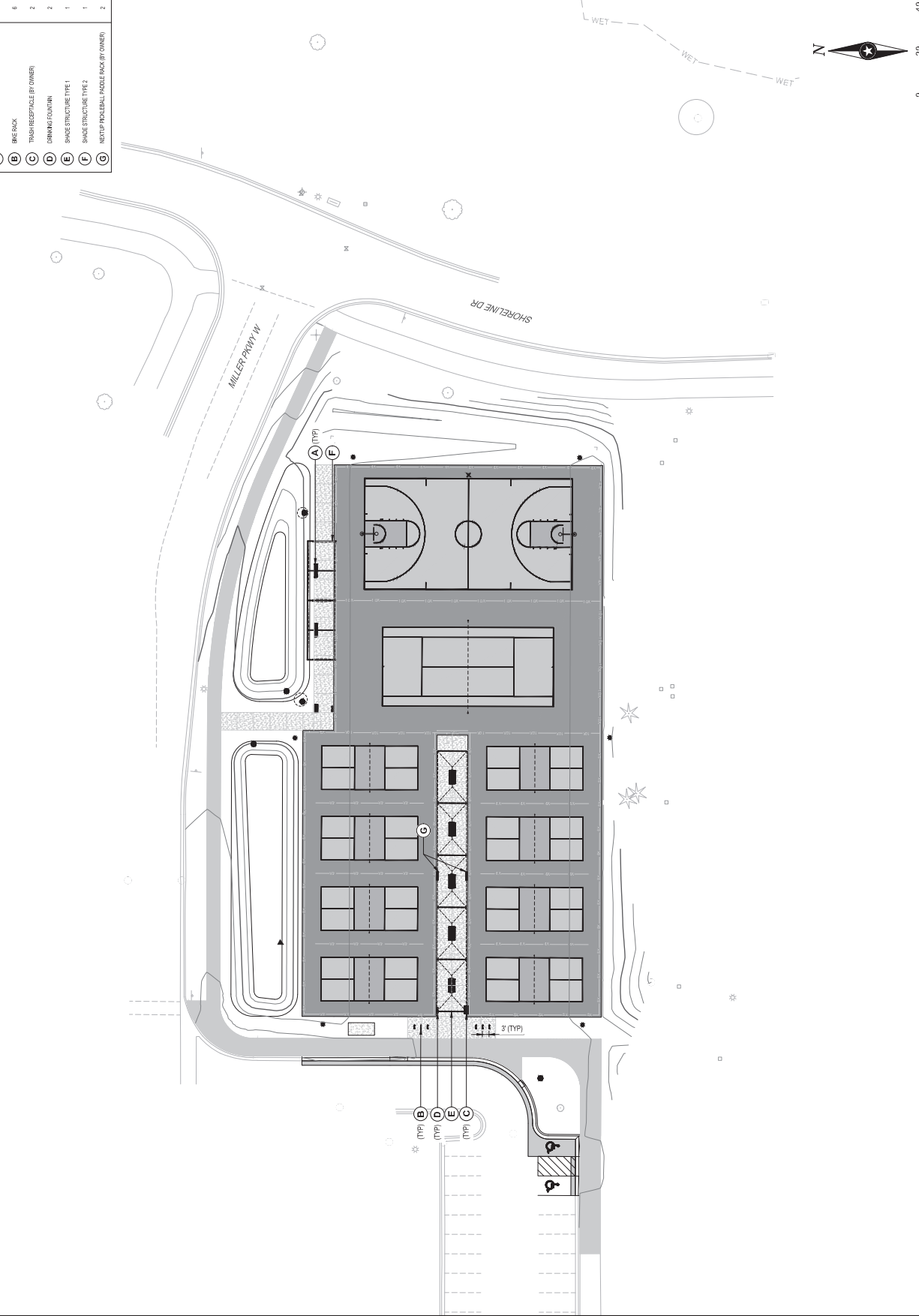
**CITY OF EDEN
 PRAIRIE
 MILLER PARK
 OUTDOOR COURTS**

DATE	REVISION OR CHANGE	BY

EDEN PRAIRIE MINNESOTA
 PROJECT NO. 24-287-518
 FILE NAME 20240909-FURNISHING
 DRAWN BY ASG
 CHECKED BY ASG
 DESIGNED BY ASG
 ORIGINAL ISSUE DATE 08/19/2024
 CLIENT PROJECT NO.

FURNISHING PLAN

SHEET **C6-10**





NOTE:
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PROJECT
CITY OF EDEN
PRAIRIE
MILLER PARK
OUTDOOR COURTS

EDEN PRAIRIE MINNESOTA
DATE: _____
REVISIONS: _____
DESCRIPTION: _____
BY: _____

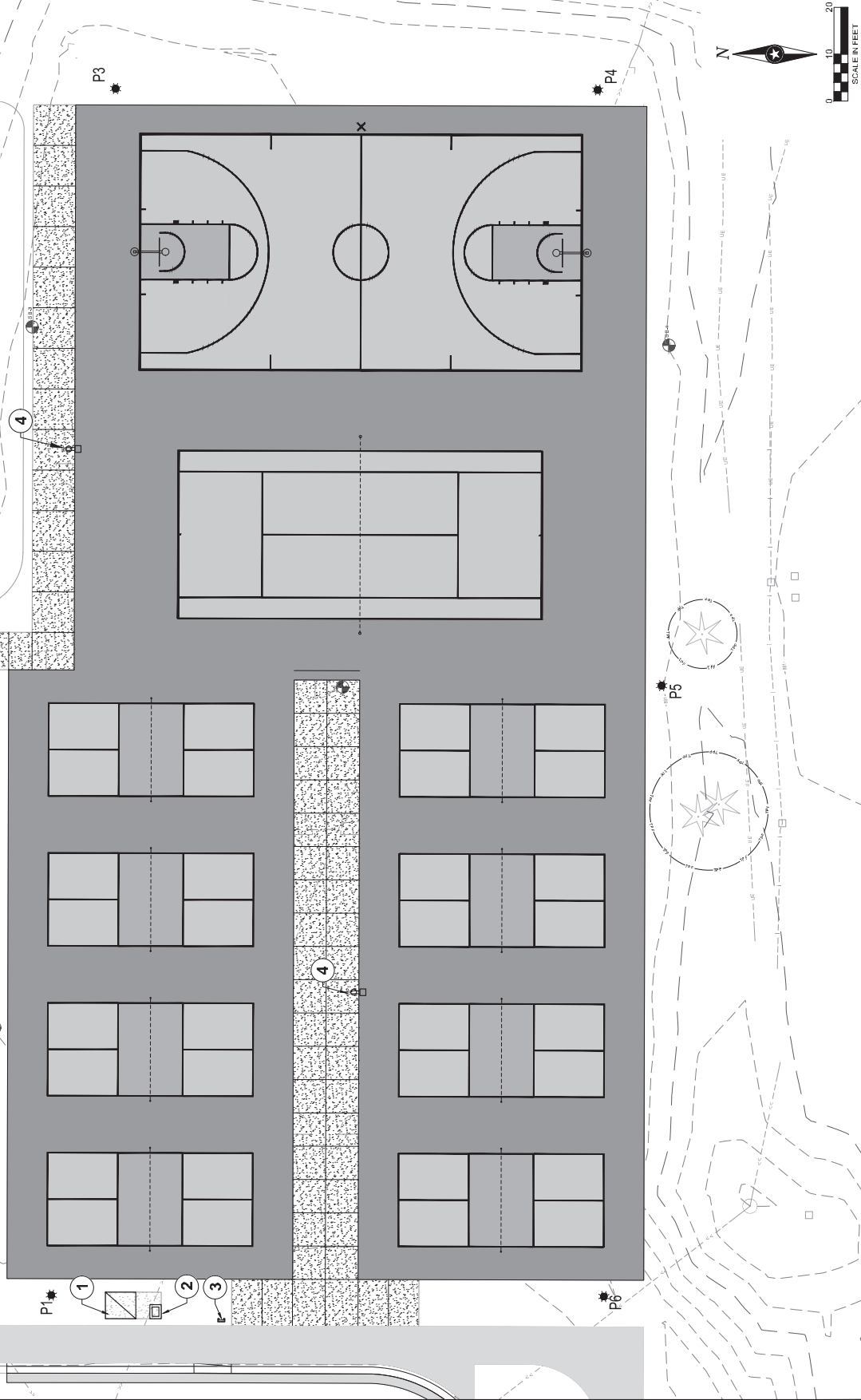
PROJECT NO.: 24-287518
FILE NAME: 240924ELECTRICAL
DESIGNED BY: AJG
CHECKED BY: AJG
ORIGINAL ISSUE DATE: 09/19/2024
CLIENT PROJECT NO.:

TITLE

ELECTRICAL PLAN

SHEET **E2-10**

- ELECTRICAL KEYNOTE LEGEND**
- 1 PROPOSED UTILITY TRANSFORMER LOCATION. REFER TO DETAIL FOR ADDITIONAL INFORMATION. COORDINATE ALL REQUIREMENTS WITH LOCAL UTILITY.
 - 2 ENCLOSED METERING CABINET WITH PANELBOARD. REFER TO DETAILS.
 - 3 LIGHTING CONTROL CABINET MOUNTED TO BACKBOARD. REFER TO DETAILS.
 - 4 POST MOUNTED RECEPTACLE. REFER TO DETAIL.





NOTE:
THE CLARITY OF THESE PLANS DEPENDS ON THE QUALITY OF THE ORIGINAL PLAN SET AND MAY BE BUILT IN A DIFFERENT COLOR. THIS IS NOT AN ORIGINAL PLAN SET AND MAY BE BUILT IN A DIFFERENT COLOR.

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THESEY CERTIFY THAT THIS PLAN SPECIFICATION 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.

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DATE: _____
REVISIONS: _____
BY: _____

PROJECT: _____

CITY OF EDEN
PRAIRIE

MILLER PARK
OUTDOOR COURTS

EDEN PRAIRIE, MINNESOTA

PROJECT NO.: _____
DATE: _____

FILE NAME: 24-267-FIB
DRAWN BY: 2009-EE-ELECTRIC
CHECKED BY: ADU
DESIGNED BY: ADU
REVISIONS BY: ADU

DATE: _____
CLIENT PROJECT NO.: _____

TITLE: _____

**ELECTRICAL
DETAILS**

E2-20

SHEET _____

LIGHT FIXTURE SCHEDULE

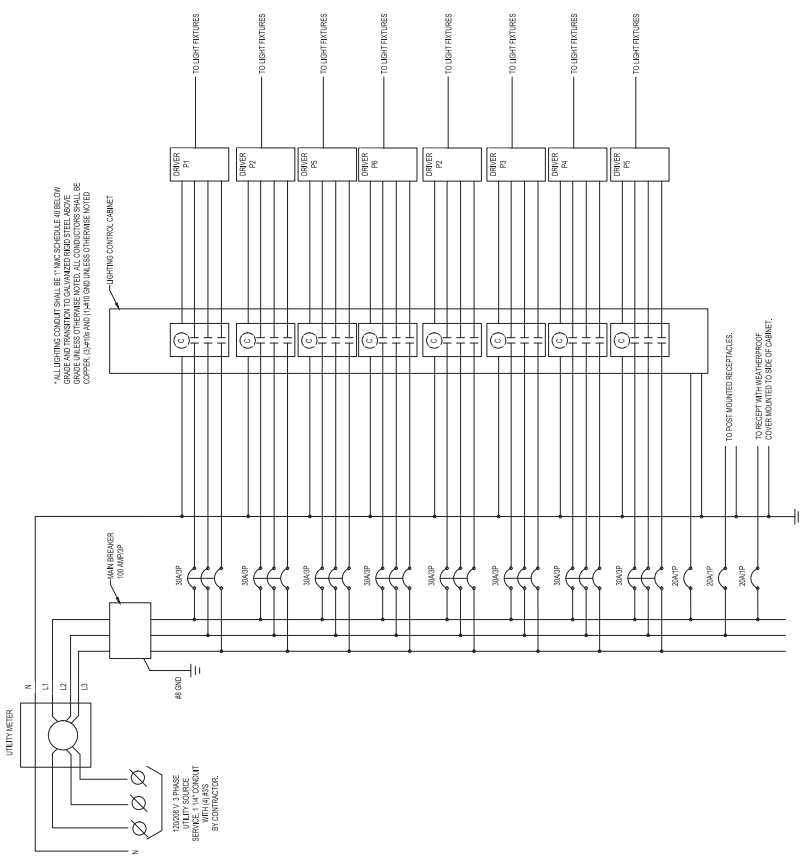
POLE ID	MANUFACTURER	LUMINAIRE TYPE	QUANTITY OF FIXTURES	LOAD	MOUNTING HEIGHT	NOTES
P1	MUSCO LIGHTING	TLC-LED-550	3	1.62 KW	50'-0"	DRIVER MOUNTED ON POLE AT 10' AFG
P2	MUSCO LIGHTING	TLC-LED-550	6	3.24 KW	50'-0"	DRIVER MOUNTED ON POLE AT 10' AFG
P3	MUSCO LIGHTING	TLC-LED-550	3	1.62 KW	50'-0"	DRIVER MOUNTED ON POLE AT 10' AFG
P4	MUSCO LIGHTING	TLC-LED-550	3	1.62 KW	50'-0"	DRIVER MOUNTED ON POLE AT 10' AFG
P5	MUSCO LIGHTING	TLC-LED-550	6	3.24 KW	50'-0"	DRIVER MOUNTED ON POLE AT 10' AFG
P6	MUSCO LIGHTING	TLC-LED-550	3	1.62 KW	50'-0"	DRIVER MOUNTED ON POLE AT 10' AFG

ATHLETIC LIGHTING NOTES

1. LIGHTING TO INCLUDE ALL FIXTURES, POLES, LIMBS, CONTROLS, ETC. FOR THE ENTIRE COURTS.
2. ALL LIGHTING FIXTURES THROUGHOUT THE COURTS AND POLE TO POLE MOUNTED DRIVERS.
3. DOWNT ROUTE CONDUITS BEYOND COURTS. ALL CONDUITS TO BE RATED AROUND COURTS.

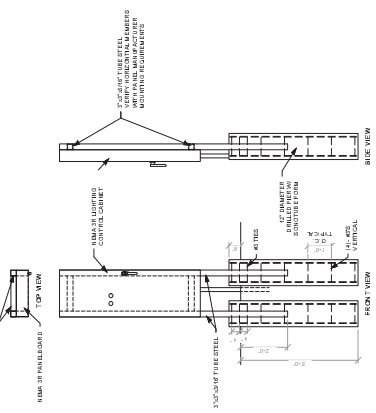
SERVICE CABINET NOTES

1. PROVIDE LEVER PULLS WITH SOCKET PER UTILITY COMPANY REQUIREMENTS.
2. CIRCUIT BREAKERS SHALL BE 1000V VOLT, 60 HZ AND SHALL BE CLEARLY MARKED WITH THE ON AND OFF POSITIONS AND IDENTIFIED WITH THE LOAD WITH WHICH IT IS CONTROLLING.
3. PROVIDE A 5' LONG GROUND AT CABINET AS PER NEC.

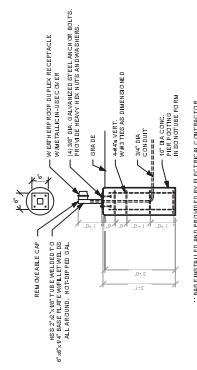


ALL LIGHTING SHALL BE 100 WATT MAXIMUM. ALL LIGHTS SHALL BE LED WITH GROUND TRANSITION TO GALVANIZED STEEL AND ALL CONDUCTORS SHALL BE COPPER UNLESS OTHERWISE NOTED.

TO POST MOUNTED RECEPTACLES.
TO RECEPTACLES MOUNTED TO SIDE OF CABINET.

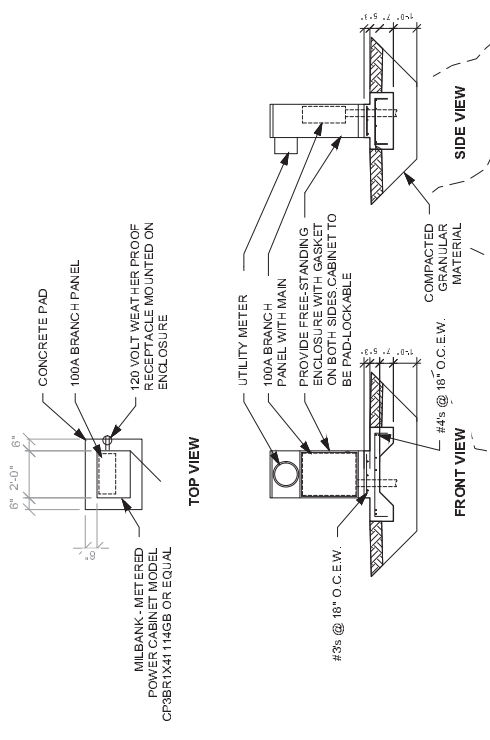


LIGHTING CONTROL CABINET DETAIL
NTS



POST MOUNTED RECEPTACLE
NTS

BELOW GRADE CONDUIT DETAIL
NTS



METERED POWER CABINET DETAIL
NTS

ELECTRICAL RISER DIAGRAM
NTS