The project includes the construction of a stormwater management system to protect the surface waters within the watershed. The project is located within the Ramsey Washington Metro Watershed District within Ramsey County in the

### Mailing Address

**Greg Nelson**

**Barr Engineering**

**4300 MARKETPOINTE DRIVE**

**MINNEAPOLIS, MN 55435**

**Ph:** 1-800-632-2277

**Fax:** (952) 832-2601

**Email:** gnelson@barr.com

### Responsible Person

**GREG NELSON**

**Barr Engineering**

**4300 MARKETPOINTE DRIVE**

**MINNEAPOLIS, MN 55435**

**Ph:** 1-800-632-2277

**Fax:** (952) 832-2601

**Email:** gnelson@barr.com

### Pre-construction Impervious Area

- **Approximately 0.00 acres**

### Post-construction Impervious Area

- **Approximately 0.00 acres**

### Area of Disturbance

- **Approximately 0.36 acres**

### Stormwater Discharge

- The project stormwater discharge is not anticipated to impact any of the following: Outstanding resource value waters, trout waters, calcareous fens, and properties associated with these resources.

### Basin Information

- **State:** Minnesota
- **County:** Ramsey
- **City:** Little Canada, MN 55117
- **Address:** 1120 Highway 65
- **Latitude:** 44.9794
- **Longitude:** -93.0479
- **Map:** See Site Location Map

### Pre-construction Stormwater Management System

- **Functioning**: Various non-functional stormwater management practices are in place, including:
  - Storm sewer culverts:
    - Flared sections
    - Riprap to eliminate erosion
  - Stabilize all soils with permanent cover, 70% or greater vegetation cover of disturbed areas.
  - Permanent Cover will consist of seeding, erosion control blanket on slopes and disturbed areas, and seeding and mulching in all other disturbed areas.
  - Storm sewer culverts shall have flared sections and riprap to eliminate erosion.
  - Erosion control blanket shall be used to cover all disturbed slopes.

### Post-construction Stormwater Management System

- **Temporary Cover**: Rock construction entrances, flotation silt curtain, and vegetation (through seeding).

### Project Office

- **Location**: 1120 Highway 65
- **Contact**: gnelson@barr.com

### Preparation of SWPPP

- **Document**: SWPPP
- **Preparation**: Project Management
- **Expiry**: TBD

### Supervision of Installation

- **Supervision**: Construction Management
- **Expiry**: TBD

### Enforcement

- **Contractor**: Must keep inspection log and copies of the log must be submitted with payment applications.

### Erosion Control Blanket

- **Use**: Erosion control blanket shall be used to cover all disturbed slopes.

### Permanent Cover

- **Features**: Permanent Cover will consist of seeding, erosion control blanket on slopes and disturbed areas, and seeding and mulching in all other disturbed areas.

### Corrective Actions

- **General**: Corrective actions need to be taken in a timely manner, and the contractor shall notify the project engineer within 24 hours of discovery of any issues.

### Spill Prevention and Response

- **Prevent**: Take reasonable steps to prevent the discharge of spilled or leaked chemicals, ensure adequate supplies of absorbent and spill control equipment are available, and implement measures to prevent spills.

### Winchester Site

- **Location**: Winchester Site
- **Address**: 1120 Highway 65
- **Contact**: gnelson@barr.com

###ウォーターサイドシティ

- **Address**: 1120 Highway 65
- **Contact**: gnelson@barr.com

### Public Participation

- **Public Participation Program**: The project is open to public participation, and all parties are encouraged to get involved.

### Regulatory Requirements

- **Permit**: The project requires a permit from the Minnesota Pollution Control Agency (MPCA) and the local municipality.

### Permitting

- **Type**: NPDES/SDS
- **Expiration**: TBD

### Stormwater Management System

- **Functioning**: Various non-functional stormwater management practices are in place, including:
  - Storm sewer culverts:
    - Flared sections
    - Riprap to eliminate erosion
  - Stabilize all soils with permanent cover, 70% or greater vegetation cover of disturbed areas.
  - Permanent Cover will consist of seeding, erosion control blanket on slopes and disturbed areas, and seeding and mulching in all other disturbed areas.
  - Storm sewer culverts shall have flared sections and riprap to eliminate erosion.
  - Erosion control blanket shall be used to cover all disturbed slopes.

### Contractor

- **Responsibility**: The contractor is responsible for implementing the SWPPP and ensuring compliance with all regulations.

### Construction

- **Supervision**: Construction Management
- **Expiry**: TBD

### Enforcement

- **Contractor**: Must keep inspection log and copies of the log must be submitted with payment applications.

### Erosion Control Blanket

- **Use**: Erosion control blanket shall be used to cover all disturbed slopes.

### Permanent Cover

- **Features**: Permanent Cover will consist of seeding, erosion control blanket on slopes and disturbed areas, and seeding and mulching in all other disturbed areas.

### Corrective Actions

- **General**: Corrective actions need to be taken in a timely manner, and the contractor shall notify the project engineer within 24 hours of discovery of any issues.

### Spill Prevention and Response

- **Prevent**: Take reasonable steps to prevent the discharge of spilled or leaked chemicals, ensure adequate supplies of absorbent and spill control equipment are available, and implement measures to prevent spills.
1. Machine slice 8"-12" by installing silt fence prior to any grading work in the area to be protected and maintain throughout the construction period. No gaps or gaps shall be present in the silt fence, silt fence shall be supported by 5 ft. min. length posts at 4 ft. max. spacing between anchors. Anchors tension cable at shore at both ends with steel posts of diameter and length sufficient to prevent bending and pull-out. Anchor tension cable shall be installed to hold silt curtain vertical in current and waves typical for the site. Curtain weight shall be heavy enough to hold curtain vertical in current and waves typical for the site. No holes or gaps shall be present in/around silt fence. Prepare area as needed to smooth surface or remove debris. Silt fence materials and installation shall meet the requirements of MN/DOT specifications 2573 and 3886.

2. Prepare area by loosening top 1/2" inches and apply seed and fertilizer where required prior to installing blankets, slope should be smooth and free of debris.

3. Place inlet protection prior to any grading work in the area to be protected or immediately following any catchbasin installation and maintain throughout the construction period. Install inlet protection over the slope at least 12" min. from the edge of the slope. No gaps shall be present in the inlet protection. Clean filter back and temporarily accumulated sediment as required to allow flow into the catchbasin and prevent sediment from leaving the device. Remove device and any accumulated sediment in conjunction with the final grading and site stabilization.

4. Machine slice 8"-12" by installing silt fence prior to any grading work in the area to be protected and maintain throughout the construction period. No gaps or gaps shall be present in the silt fence, silt fence shall be supported by 5 ft. min. length posts at 4 ft. max. spacing between anchors. Anchors tension cable at shore at both ends with steel posts of diameter and length sufficient to prevent bending and pull-out. Anchor tension cable shall be installed to hold silt curtain vertical in current and waves typical for the site. Curtain weight shall be heavy enough to hold curtain vertical in current and waves typical for the site. No holes or gaps shall be present in/around silt fence. Prepare area as needed to smooth surface or remove debris. Silt fence materials and installation shall meet the requirements of MN/DOT specifications 2573 and 3886.

5. Install silt curtain log along contour where constant erosion occurs. No gaps or gaps shall be present in the silt curtain log and maintain throughout the construction period. Install inlet protection prior to any grading work in the area to be protected or immediately following any catchbasin installation and maintain throughout the construction period. No gaps or gaps shall be present in the inlet protection. Install silt curtain log along contour where constant erosion occurs. No gaps or gaps shall be present in the silt curtain log and maintain throughout the construction period.

6. Machine slice 8"-12" by installing silt fence prior to any grading work in the area to be protected and maintain throughout the construction period. No gaps or gaps shall be present in the silt fence, silt fence shall be supported by 5 ft. min. length posts at 4 ft. max. spacing between anchors. Anchors tension cable at shore at both ends with steel posts of diameter and length sufficient to prevent bending and pull-out. Anchor tension cable shall be installed to hold silt curtain vertical in current and waves typical for the site. Curtain weight shall be heavy enough to hold silt curtain vertical in current and waves typical for the site. No holes or gaps shall be present in/around silt fence. Prepare area as needed to smooth surface or remove debris. Silt fence materials and installation shall meet the requirements of MN/DOT specifications 2573 and 3886.
1.0 GENERAL REQUIREMENTS

1. DESIGN:
   1. THESE NOTES ARE COMPLIMENTARY TO THE SPECIFICATIONS AND DRAWINGS AND
      APPROPRIATE SIMILAR REQUIREMENTS REFER TO SPECIFICATIONS FOR ADDITIONAL
      REQUIREMENTS.
   2. UNLESS SPECIFIC NOTED, DRAWINGS DO NOT RECOMMEND MATERIALS OR
      CONSTRUCTION METHODS.
   3. THE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE AND, EXCEPT WHERE
      SPECIFICALLY NOTED, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION.

2. GOVERNING CODES

1. PERFORM WORK IN COMPLIANCE WITH APPLICABLE REGULATIONS.
   2. 2016 IBC WITH 2020 MINNESOTA BUILDING CODE AMENDMENTS

3. DESIGNATION

1. DRAWN WITH REGARD TO GOVERNING CODES
   2. UHS-2000-SD EPOXY ADHESIVE ANCHORING SYSTEM

4. 2.0 GROUTING

1. FILLER MATERIAL FOR WELDED CONNECTIONS: MINIMUM TENSILE STRENGTH OF 70,000 PSI
   2. POST-INSTALLED ANCHORS:
      a. ADHESIVE ANCHORS: HILTI HIT-RE 500-SD EPOXY ADHESIVE ANCHORING SYSTEM
         WITH COMPRESSIBLE WASHERS: ASTM F436
      b. NUTS: ASTM A563, HEAVY HEX, GRADE C
      c. WASHERS: ASTM F436
      d. HIGH STRENGTH BOLTS: ASTM F1852 TWIST-OFF BOLTS OR ASTM A325, TYPE 1
      e. COMPRESSIBLE WASHER-TYPE DIRECT TENSION INDICATOR: ASTM F959

3. 3.0 STRUCTURAL STEEL

1. PIPES: ASTM A333, GRADE 3, SCHEDULE 40,FY = 35 KSI
   2. STEEL PLATES AND BARS: ASTM A36, FY = 36 KSI
   3. FASTENERS:
      a. HIGH STRENGTH BOLTS: ASTM F1852 TWIST-OFF BOLTS OR ASTM A325, TYPE 1
      b. NUTS: ASTM A194, GRADE 7, GRADE C
      c. WASHERS: ASTM F136
      d. COMPRESSIBLE WASHER-TYPE DIRECT TENSION INDICATOR: ASTM F959
      e. POST-INSTALLED ANCHORS:
         a. ADHESIVE ANCHORS: HILTI HIT-RE 500-SD EPOXY ADHESIVE ANCHORING SYSTEM
            WITH COMPRESSIBLE WASHERS: ASTM F436
         b. MECHANICAL ANCHORS: HILTI KWIK BOLT-TZ EXPANSION ANCHORS
   4. FULLER MATERIAL FOR WELDED CONNECTIONS MINIMUM TENSILE STRENGTH OF 70,000 PSI
      (OTHER ELECTRODES)

5. 24" RCP/FES

6. REMOVE PIPE SUPPORT
**Section: West Structure Demo**

- **Width:** 30'-0" to 40'-0"
- **Height:** 15'-0" to 16'-0"

**Existing Access Way**
- **Depth:** 4'-0" to 5'-0"
- **Width:** 2'-0" to 3'-0"

**Existing Trashrack**
- **Height:** 6'-0" to 7'-0"
- **Width:** 2'-0" to 3'-0"

**Existing Bollard**
- **Height:** 10'-0" to 12'-0"
- **Width:** 1'-0" to 2'-0"

**Existing Galvanized Plate**
- **Height:** 6'-0" to 7'-0"
- **Width:** 2'-0" to 3'-0"

**Existing Aluminum Strip**
- **Height:** 2'-0" to 3'-0"
- **Width:** 1'-0" to 2'-0"

**Existing 24" RCP/FES**
- **Height:** 5'-0" to 6'-0"
- **Width:** 2'-0" to 3'-0"

**Existing Trashrack**
- **Height:** 6'-0" to 7'-0"
- **Width:** 2'-0" to 3'-0"

**Existing Pipe Support**
- **Height:** 4'-0" to 5'-0"
- **Width:** 2'-0" to 3'-0"

**Existing Access Way**
- **Depth:** 4'-0" to 5'-0"
- **Width:** 2'-0" to 3'-0"

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- **Width:** 2'-0" to 3'-0"

**Existing Trashrack**
- **Height:** 6'-0" to 7'-0"
- **Width:** 2'-0" to 3'-0"
1. Field confirm locations of all existing underground utilities, cables, conduits, etc. prior to construction. Contractor is responsible for the protection of all existing underground utilities and any damages. Project shall be repaired at no cost to the contractor.

2. Field confirm and coordinate control panel locations with the existing electric systems, Xcel Energy.

3. See enlarged plans for additional electrical details.

GENERAL NOTES:

1. Field confirm locations of all existing underground utilities, cables, conduits, etc. prior to construction. Contractor is responsible for the protection of all existing underground utilities and any damages. Project shall be repaired at no cost to the contractor.

2. Field confirm and coordinate control panel locations with the existing electric systems, Xcel Energy.

3. See enlarged plans for additional electrical details.
GENERAL NOTES:
1. PROVISION FOR INSTALLATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
2. PROVIDE TEMPORARY SUPPORT FOR EXISTING FACILITIES THAT WILL BE EXPOSED DUE TO GENERAL, PROCESS AND STRUCTURAL CONSTRUCTION.
3. FIELD CONFIRM AND COORDINATE CONDUIT ROUTING.
4. CORE DRILL EXISTING STRUCTURES AS REQUIRED FOR NEW CONDUIT INSTALLATION. PATH ALL SURFACES TO MATCH EXISTING. ALL CORE DRILL LOCATIONS SHALL BE VERIFIED WITH ENGINEER.

NUMERICAL NOTES:
1. THREE (3) 2" CONDUITS FROM ACTUATOR CONTROLS ENCLOSURE TO EACH GATE STRUCTURE FOR MFR. ACTUATOR CABLES.
2. FIELD CONFIRM LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES, CABLES, CONDUITS, ETC. PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REPAIR SUCH ITEMS AT NO COST IF DAMAGED BY THE CONTRACTOR.
3. PROVIDE TEMPORARY SUPPORT FOR EXISTING FACILITIES THAT WILL BE EXPOSED DUE TO GENERAL, PROCESS AND STRUCTURAL CONSTRUCTION.
4. FIELD CONFIRM AND COORDINATE CONDUIT ROUTING.
5. CORE DRILL EXISTING STRUCTURES AS REQUIRED FOR NEW CONDUIT INSTALLATION. PATH ALL SURFACES TO MATCH EXISTING. ALL CORE DRILL LOCATIONS SHALL BE VERIFIED WITH ENGINEER.

CIRCUIT LEGEND:
1. W-12/C-#6, 2"C
2. W-12/C-#12, 1"C
3. W-12/C-#12G, 1"C
4. W-12/C-#14, 1"C

PLOT SCALE: 1:1
PLOT DATE: 7/30/2020 9:43 AM

ISSUED FOR PROJECT APPROVAL

MINNEAPOLIS, MINNESOTA 55435

KELLER CHANNEL WEIR & PHALEN OUTLET RESILIENCE
PHALEN OUTLETS ENLARGED ELECTRICAL SITE PLANS

FILE: M:\DESIGN\23621355.00\2362135500_E-03.DWG
PLOT SCALE: 1:2
PLOT DATE: 7/30/2020 9:43 AM

REVISION DESCRIPTION
DATE
APP.
NO.
CHK.
TO/FOR
RELAPSED
DATE
RELEASED
APP.
SIGNATURE
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.

BARR ENGINEERING CO.
4300 MARKETPOINTE DRIVE
MINNEAPOLIS, MN 55435
Ph: 1-800-632-2277
Fax: (952) 832-2601
www.barr.com
GENERAL NOTES:
1. Field confirm locations of all existing underground utilities and confirm depth. Note: Use caution when performing any work around the utility area.
2. Provide temporary support for existing pad foot that will be removed due to general process and structural construction.
3. Field confirm and coordinate conduit routing.
4. Coordinate all electrical utility services with the serving electrical utility provider.
5. Core drill existing structures as required for new conduit installation. Path all surfaces to match existing.
6. All core drill locations shall be verified with engineer.

NUMBERED NOTES:
1. CT CABLE FROM ACTUATOR CONTROL TO GATE ACTUATOR FOR MRF ACTUATOR CABLES. SECURE CABLES TO UNDER SIDE OF CONCRETE SLAB USING STAINLESS STEEL HARDWARE.

CIRCUIT LEGEND:
1. 4-1/C-#12, 1-1/C-#12G, #1/C
2. 10-1/C-#14, 1/C
3. 1-2/C-#16SH, 1/C
4. 1-2/C-#16SH, 1/C
5. 1-2/C-#16SH, 1/C

PLAN: KELLER CHANNEL ENLARGED ELECTRICAL

KELLER CHANNEL CONTROL PANEL AND ACTUATOR CONTROL ENCLOSURE

SCALE 10' = 1'

PLAN: ELECTRICAL SITE

ISSUED FOR PROJECT APPROVAL
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Appendix A: Erosion Control Inspection Log