CALL 811 BEFORE YOU DIG

DEPARTMENT OF NATURAL RESOURCES & PARKS
SOLID WASTE DIVISION
KING COUNTY LEACHATE PIPELINE IMPROVEMENTS
SITE EXISTING CONDITIONS & PIPING REMOVAL FIGURES

REPAIR AREA 1 - FACING SOUTHWEST
FIGURE 1
SCALE: NTS

REPAIR AREA 2 - FACING SOUTHWEST
FIGURE 2
SCALE: NTS

EXISTING TEMPORARY PAVEMENT PATCH. SEE SHEET 0_C1.03 FOR PAVEMENT REMOVAL/REPLACEMENT.

EXISTING 12" DUCTILE IRON LEACHATE PIPELINE
APPROXIMATE LOCATION OF EXISTING ROMAC COUPLING (SALVAGE TO COUNTY)

EXISTING EDGE OF ROADWAY PAVEMENT

EXISTING GUARDRAIL (PROTECT IN PLACE)

EXISTING YELLOW SOLID DOUBLE CENTERLINE

EXISTING GUARDRAIL (PROTECT IN PLACE)

EXISTING GUARDRAIL (PROTECT IN PLACE)

EXISTING YELLOW SOLID DOUBLE CENTERLINE
Overall Site Plan

Legend:
- Existing Grade Major Contour
- Existing Grade Minor Contour
- 150' Aquatic Area Buffer Line
- Edge of Existing Pavement
- Existing Fogline
- Existing Leachate Pipeline
- Edge of Proposed Pavement
- Proposed Fogline
- Proposed Leachate Pipeline
- Utility Vault Footing
- Utility Vault Walls (Below Grade)
- Utility Vault Double-Leaf Access Hatch
- Plus Value
- Flexible ROMAC Coupling
- Cleanout

Area 1. See Sheets 0_C1.01 and 0_C1.03.
- Existing 12" Leachate Pipeline

Area 2. See Sheets 0_C1.02 and 0_C1.04.
- 200' Shoreline Jurisdiction Line
- 10'

Scale: 1" = 20'

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Department of Natural Resources & Parks
Solid Waste Division
King County Leachate Pipeline Improvements
Overall Site Plan
LEGEND
- Existing Driveway Contour
- Existing Grooved Contour
- 10' Aquatic Area Buffer Line
- Existing Edge of Pavement
- Existing 12" Leachate Pipeline
- Edge of Proposed Pavement
- Proposed Leachate Pipeline
- Proposed Fogline
- Utility Vault Footing
- Utility Vault Walls (Below Grade)
- Utility Vault Double-Lock Access Hatch
- Utility Vault Access Frame and Grate
- Flexible Romac Coupling
- Cleanout

 getKey Notes
1. Contractor shall verify depth, location, and size of existing 12" leachate pipeline prior to installation of precast vault and coring pipe penetrations locations in precast vault.
2. Proposed 12" leachate pipeline, 12" ductile iron trench section per 2020 Washington Department of Transportation (WSDOT) Pipe Zone Bedding and Backfill Standard Plan B-55.20.02. Install pipe with constant slope between existing pipe connection locations with no interim high points along the proposed pipeline.
3. Approximate location of existing temporary pavement repair area. See figure 1 on sheet 0_C1.00.

General Notes
1. See sheet 0_C1.03 for area 1 roadway removal and restoration information.

DEPARTMENT OF NATURAL RESOURCES & PARKS
SOLID WASTE DIVISION
KING COUNTY LEACHATE PIPELINE IMPROVEMENTS
SITE LAYOUT & PIPING PLAN
AREA 1

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SCALE 1" = 5'
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1. SEE SHEET 0_C1.04 FOR AREA 2 ROADWAY REMOVAL AND RESTORATION INFORMATION.
GENERAL NOTES:
1. BASE MAP COMPILED FROM PUBLICLY AVAILABLE GIS RECORDS AND AERIAL MAPS. LOCATIONS ARE APPROXIMATE. CONTRACTOR RESPONSIBLE FOR VERIFICATION OF EXISTING SURFACE FEATURES.
2. CONTRACTOR RESPONSIBLE FOR VERIFICATION OF ALL UNDERGROUND UTILITIES AND FOR NOTIFYING THE ENGINEER IF ADDITIONAL UTILITIES OR CONFLICTS ARE DISCOVERED.
3. ALL CONSTRUCTION WASTE MATERIAL TO BE HAULED AWAY FROM SITE AND DEPOSITED AT APPROVED DISPOSAL LOCATION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, TEMPORARY FENCING, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER MEASURES TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN THE VICINITY OF THE WORK.
5. CARE SHALL BE TAKEN WHEN WORKING NEAR EXISTING STRUCTURES.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND IMPLEMENT ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH WASHINGTON STATE DEPARTMENT OF ECOLOGY REGULATIONS AND WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARDS.
7. PROJECT SHALL CONFORM TO 2021 WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS.

LEGEND
1. CLOSING BUMPS PLACEMENT REMOVING ASPHALT CONCRETE PAVEMENT, FULL DEPTH
2. CLOSING BUMPS PLACEMENT REMOVING ASPHALT CONCRETE PAVEMENT, 2'-3' REPLACEMENT
3. CLEARING AND GRAVELING TOP COURSE
4. 5'-6' AQUATIC AREA BUFFER LINE
5. VAULT HATCH
6. VAULT FOOTING
7. VAULT MANHOLE LID
8. RESTORE WHITE PAINT LINE
9. RESTORE DOUBLE YELLOW CENTERLINE
10. LEACHATE PIPELINE EXTENTS OF PIPE REMOVAL TO BE DETERMINED BY THE ENGINEER IN THE FIELD
11. EXCAVATION LIMIT
12. RESTORE WHITE PAINT LINE
13. BASemap_AERIAL.png
14. hdr-logo.jpg
15. KCLeachate_Aerial2019.tif

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DEPARTMENT OF NATURAL RESOURCES & PARKS
SOLID WASTE DIVISION
KING COUNTY LEACHATE PIPELINE IMPROVEMENTS
ROADWAY PLAN
AREA 1
GENERAL NOTES:
1. BASE MAP COMPILED FROM PUBLICLY AVAILABLE GIS RECORDS AND AERIAL MAPS. LOCATIONS ARE APPROXIMATE. CONTRACTOR RESPONSIBLE FOR VERIFICATION OF EXISTING SURFACE FEATURES.
2. CONTRACTOR RESPONSIBLE FOR VERIFICATION OF ALL UNDERGROUND UTILITIES AND FOR NOTIFYING THE ENGINEER IF ADDITIONAL UTILITIES OR CONFLICTS ARE DISCOVERED.
3. ALL CONSTRUCTION WASTE MATERIAL TO BE HAULED AWAY FROM SITE AND DEPOSITED AT APPROVED DISPOSAL LOCATION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, TEMPORARY FENCING, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF THE CONTRACTORS WORK.
5. CARE SHALL BE TAKEN WHEN WORKING NEAR EXISTING STRUCTURES.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IMPLEMENT ADHOC EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH ADMINISTRATION OF ECOLOGY REGULATIONS AND ADMINISTRATION OF TRANSPORTATION STANDARDS.
7. WORK CONSISTS OF 2021 WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS.
CONSTRUCTION NOTES

1. ALL PENETRATIONS SHALL BE CORRECTLY SHIELDED AND INSULATED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.

2. DUCTILE IRON PIPE PER VITTORIO STANDARDS. SPECIFICATION MUTED TO SECTION 9.1. DUCTILE IRON PIPE SHALL BE USED ONLY IN THICKNESS OF 3" (60 MM) THICKNESS. DUCTILE IRON PIPE SHALL BE PROOF TESTING FOR ACCEPTABLE EQUAL. PROOF TESTING SHALL BE PER PER VITTORIO STANDARDS SPECIFICATION MUTED TO SECTION 9.1. DUCTILE IRON PIPE PER VITTORIO STANDARDS. SPECIFICATION MUTED TO SECTION 9.1.

3. DUCTILE IRON PIPE FITTINGS PER VITTORIO STANDARDS. SPECIFICATION MUTED TO SECTION 9.1. DUCTILE IRON PIPE FITTINGS SHALL BE USED IN ALL PARTS OF CONNECTIONS THAT ARE NOT INSULATED. IN CONVERSIONS THAT ARE NOT INSULATED. IN CONVERSIONS THAT ARE NOT INSULATED.

KEY NOTES

A. UTILITY Vault (24" 400 Lb. 1-2000#) with 24" (600 mm) Polyethylene Envelope. An observation shall be made prior to the application of the polyethylene envelope. The envelope shall be inspected and certified by an independent third party. The envelope shall be installed in accordance with the manufacturer's specifications. The envelope shall be certified by a certified applicator of the protective coating.

B. Precast Utility Vault HS-20 Access Hatch (36" x 60") made of cast iron. The hatch shall be installed in accordance with the manufacturer's specifications. The hatch shall be certified by a certified applicator of the protective coating.

C. Door) or approved equal (LW Products Co., Inc., Model S89, STANDON Double Leaf Door). The door shall be installed in accordance with the manufacturer's specifications. The door shall be certified by a certified applicator of the protective coating.

D. Polyethylene Envelope (Material Resources, Inc., FCA501 or approved equal). The envelope shall be installed in accordance with the manufacturer's specifications. The envelope shall be certified by a certified applicator of the protective coating.

E. Polyethylene Envelope (Material Resources, Inc., FCA501 or approved equal). The envelope shall be installed in accordance with the manufacturer's specifications. The envelope shall be certified by a certified applicator of the protective coating.

F. Polyethylene Envelope (Material Resources, Inc., FCA501 or approved equal). The envelope shall be installed in accordance with the manufacturer's specifications. The envelope shall be certified by a certified applicator of the protective coating.

G. Polyethylene Envelope (Material Resources, Inc., FCA501 or approved equal). The envelope shall be installed in accordance with the manufacturer's specifications. The envelope shall be certified by a certified applicator of the protective coating.

H. Polyethylene Envelope (Material Resources, Inc., FCA501 or approved equal). The envelope shall be installed in accordance with the manufacturer's specifications. The envelope shall be certified by a certified applicator of the protective coating.

I. Polyethylene Envelope (Material Resources, Inc., FCA501 or approved equal). The envelope shall be installed in accordance with the manufacturer's specifications. The envelope shall be certified by a certified applicator of the protective coating.

J. Polyethylene Envelope (Material Resources, Inc., FCA501 or approved equal). The envelope shall be installed in accordance with the manufacturer's specifications. The envelope shall be certified by a certified applicator of the protective coating.

K. Polyethylene Envelope (Material Resources, Inc., FCA501 or approved equal). The envelope shall be installed in accordance with the manufacturer's specifications. The envelope shall be certified by a certified applicator of the protective coating.

L. Polyethylene Envelope (Material Resources, Inc., FCA501 or approved equal). The envelope shall be installed in accordance with the manufacturer's specifications. The envelope shall be certified by a certified applicator of the protective coating.

M. Polyethylene Envelope (Material Resources, Inc., FCA501 or approved equal). The envelope shall be installed in accordance with the manufacturer's specifications. The envelope shall be certified by a certified applicator of the protective coating.

N. Polyethylene Envelope (Material Resources, Inc., FCA501 or approved equal). The envelope shall be installed in accordance with the manufacturer's specifications. The envelope shall be certified by a certified applicator of the protective coating.

O. Polyethylene Envelope (Material Resources, Inc., FCA501 or approved equal). The envelope shall be installed in accordance with the manufacturer's specifications. The envelope shall be certified by a certified applicator of the protective coating.

P. Polyethylene Envelope (Material Resources, Inc., FCA501 or approved equal). The envelope shall be installed in accordance with the manufacturer's specifications. The envelope shall be certified by a certified applicator of the protective coating.

Q. Polyethylene Envelope (Material Resources, Inc., FCA501 or approved equal). The envelope shall be installed in accordance with the manufacturer's specifications. The envelope shall be certified by a certified applicator of the protective coating.

R. Polyethylene Envelope (Material Resources, Inc., FCA501 or approved equal). The envelope shall be installed in accordance with the manufacturer's specifications. The envelope shall be certified by a certified applicator of the protective coating.

S. Polyethylene Envelope (Material Resources, Inc., FCA501 or approved equal). The envelope shall be installed in accordance with the manufacturer's specifications. The envelope shall be certified by a certified applicator of the protective coating.

T. Polyethylene Envelope (Material Resources, Inc., FCA501 or approved equal). The envelope shall be installed in accordance with the manufacturer's specifications. The envelope shall be certified by a certified applicator of the protective coating.

U. Polyethylene Envelope (Material Resources, Inc., FCA501 or approved equal). The envelope shall be installed in accordance with the manufacturer's specifications. The envelope shall be certified by a certified applicator of the protective coating.

V. Polyethylene Envelope (Material Resources, Inc., FCA501 or approved equal). The envelope shall be installed in accordance with the manufacturer's specifications. The envelope shall be certified by a certified applicator of the protective coating.

W. Polyethylene Envelope (Material Resources, Inc., FCA501 or approved equal). The envelope shall be installed in accordance with the manufacturer's specifications. The envelope shall be certified by a certified applicator of the protective coating.

X. Polyethylene Envelope (Material Resources, Inc., FCA501 or approved equal). The envelope shall be installed in accordance with the manufacturer's specifications. The envelope shall be certified by a certified applicator of the protective coating.

Y. Polyethylene Envelope (Material Resources, Inc., FCA501 or approved equal). The envelope shall be installed in accordance with the manufacturer's specifications. The envelope shall be certified by a certified applicator of the protective coating.

Z. Polyethylene Envelope (Material Resources, Inc., FCA501 or approved equal). The envelope shall be installed in accordance with the manufacturer's specifications. The envelope shall be certified by a certified applicator of the protective coating.
CONSTRUCTION NOTES

1. ALL PENETRATIONS SHALL BE CORE DRILLED AND SECURED/SEALED WITH LINK SEAL AND GROUTED.
2. DUCTILE IRON PIPE PER WSDOT STANDARDS SPECIFICATIONS BUTTON BE USED IN G.C. DUCTILE IRON PIPE SHALL BE LINED WITH 40 MIL OF CERAMIC EPOXY LINING PROTECTO 401 OR APPROVED EQUAL. PIPE THREADING IS TO BE PER WSDOT STANDARDS SPECIFICATION SECTION 9-30.1(2).
3. DUCTILE IRON PIPE FITTINGS PER WSDOT STANDARDS SPECIFICATIONS BUTTONS BE USED IN G.C. DUCTILE IRON PIPE FITTINGS SHALL BE LINED WITH 40 MIL OF CERAMIC EPOXY LINING PROTECTO 401 OR APPROVED EQUAL.

KEY NOTES

- USE CAST IRON ACCESS FRAME AND GRATE (COUNTY PROVIDED)
- USE DYNAMICAL COUPLING ADAPTER ROMAC INDUSTRIES INC., STYLE FCA501 OR APPROVED EQUAL.
- DUCTILE IRON PIPE FITTINGS PER WSDOT STANDARDS SPECIFICATIONS BUTTONS BE USED IN G.C. DUCTILE IRON PIPE SHALL BE LINED WITH 40 MIL OF CERAMIC EPOXY LINING PROTECTO 401 OR APPROVED EQUAL.
- USE INSULATION PLUS 0, 0 OR WITH 2 SQUARE NUT OPERATOR (COUNTY PROVIDED)
- USE INSULATION PLUS 0, 0 OR WITH 2 SQUARE NUT OPERATOR (COUNTY PROVIDED)
- USE DUCTILE IRON PIPE PER WSDOT STANDARDS SPECIFICATIONS BUTTONS BE USED IN G.C. DUCTILE IRON PIPE SHALL BE LINED WITH 40 MIL OF CERAMIC EPOXY LINING PROTECTO 401 OR APPROVED EQUAL.
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- USE INSULATION PLUS 0, 0 OR WITH 2 SQUARE NUT OPERATOR (COUNTY PROVIDED)

DETAIL

SCAL\(e\) 10:1

PRECAST UTILITY VAULT AREA 2

SECTION BB

12" DREDGED SURFACES MADE COURSE COMPACTED TO MIN. MAX. DRY DENSITY

REMARKS

Existing Grade

Prepared Grade

SOLID WASTE DIVISION

KING COUNTY LEACHATE PIPELINE IMPROVEMENTS

PRECAST UTILITY VAULT DETAILS - AREA 2

DEPARTMENT OF NATURAL RESOURCES & PARKS

Page 9 of 15
**AREA 1**

**TYPICAL SECTION**

**SCALE:** 1:10

- **ROADWAY CENTERLINE**
- **PAVED SHOULDER** (VARIES)
- **LANE** (VARIES)
- **LANE** (VARIES)
- **LANE** (VARIES)
- **PAVED SHOULDER** (VARIES)
- **LIMITS OF EXCAVATION**
- **VAULT**

- **CONSTRUCTION NOTES**
  1. **ROADWAY CENTERLINE**
  2. **PAVED SHOULDER** (VARIES)
  3. **LANE** (VARIES)
  4. **LANE** (VARIES)
  5. **LANE** (VARIES)
  6. **PAVED SHOULDER** (VARIES)


**AREA 2**

**TYPICAL SECTION**

**SCALE:** 1:10

- **ROADWAY CENTERLINE**
- **PAVED SHOULDER** (VARIES)
- **LANE** (VARIES)
- **LANE** (VARIES)
- **LANE** (VARIES)
- **PAVED SHOULDER** (VARIES)
- **LIMITS OF EXCAVATION**
- **VAULT**

- **CONSTRUCTION NOTES**
  1. **ROADWAY CENTERLINE**
  2. **PAVED SHOULDER** (VARIES)
  3. **LANE** (VARIES)
  4. **LANE** (VARIES)
  5. **LANE** (VARIES)
  6. **PAVED SHOULDER** (VARIES)