Pokagon State Park
Toboggan Run Piping Upgrades
Public Works Project No. ENG2003780646

Construction Documents
November 22, 2021
1. PROVIDE TEMPORARY FENCING DURING CONSTRUCTION AROUND CONSTRUCTION LIMITS. FACILITY MANAGER SHALL APPROVE CONSTRUCTION LIMITS PRIOR TO ERECTING TEMPORARY FENCING.

2. MINIMIZE BRUSH CLEARING.

3. TREES SHALL NOT BE REMOVED UNLESS SHOWN ON THE CONSTRUCTION DOCUMENTS OR WHERE OTHERWISE APPROVED.

4. CONTRACTOR SHALL PROVIDE PERMANENT SEEDING IN ALL AREAS DISTURBED BY CONSTRUCTION.

5. CONTRACTOR SHALL REPAIR OR REPLACE IN-KIND PAVED DRIVES, WALKWAYS, AND OTHER SURFACES DAMAGED BY CONSTRUCTION ACTIVITIES.

GENERAL NOTES:
INSTALL EXPANSION JOINT AT APPROPRIATE FULLY EXTENDED AND 0" IS FULLY RECESSED.

EXTENSION PER AMBIENT TEMPERATURE WHERE 6" IS 120°F
110°F
100°F

EXPANSION JOINT INSTALLATION TABLE

<table>
<thead>
<tr>
<th>AMBIENT AIR TEMP</th>
<th>70°F</th>
<th>90°F</th>
<th>50°F</th>
<th>30°F</th>
<th>0°F</th>
<th>60°F</th>
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BE APPLIED WHERE PIPE ANCHOR, EXPANSION JOINT, 3" OR 2" SCH 40 PVC GLYCOL PIPE WITH 1" FACTORY AND UNIONS ARE INSTALLED. SEE PLAN VIEW BELOW APPLIED INSULATION. FACTORY INSULATION SHALL NOT REINSTALL EXISTING HARDWARE TO BE STAINLESS STEEL.

LOWER SUPPORT TO LOWER SUPPORT. FOLD END CONCRETE SURFACE CUT NOTCH IN SHROUD OVER EXISTING SHROUD. STAINLESS STEEL SHROUD TO SIT FLUSH WITH ALLOW SPACE FOR STRUT.

EXISTING SHROUD LOWER SUPPORT SHROUD.

EXISTING UNION (TYP.)

SECTION VIEW

PIPE STRAPS.
SERIES OR APPROVED EQUAL. FOR 2" DIA GLYCOL PIPES USE (2) TWO 2" DIA INSULATION COVER.

FACTORY INSTALLED PVC RETURN HEADER INSIDE S.S. CURB, IN UPPER PORTION OF TRACK ONLY.

FACTORY INSTALLED PVC SUPPLY HEADER INSIDE S.S. CURB, IN LOWER PORTION OF TRACK.

RETURN HEADER INSIDE S.S. CURB, IN LOWER PORTION OF TRACK ONLY.

EXIST UNION (TYP.)

BOLT, AND WASHER STEEL CHANNEL NUT, STRUT WITH STAINLESS STEEL, UNISTRUT P3000T OR SLOTTED STRUT, STAINLESS STEEL WEDGE ANCHORS WITH PIPE BRANCH CONNECTION DETAIL FOR ODD NUMBERED VALVE VAULT TIE-IN.

THREADED COUPLING RETURN HEADER INSIDE S.S. CURB, IN LOWER PORTION OF TRACK ONLY.

FACTORY INSTALLED PVC SHROUD, TYP 4 FIBERGLASS W/ INTEGRAL ASJ AND AROUND CHECK VALVE IN KIND, WITHOUT BINDING.

EXT UNION (TYP.)

EXIST 1-1/4" BALL VALVE

EXIST 1" BALL VALVE, TYP 4

EXIST 1-1/4" BALL VALVE, TYP 4

EXIST 1/8" NPT CRUSHED STONE AROUND DRAIN PORT

EXISTING BURY DEPTH OR 36" WHICHEVER IS GREATER MATCH EXISTING BURY DEPTH OR 36" WHICHEVER IS GREATER

EXISTING PIPING WITH SEAL CONNECTION TO VAPOR BARRIER, TYP.

FACTORY INSULATED PVC SUPPLY UP IN TRACK SHROUD TO SUPPLY HEADER

FACTORY INSULATED PVC SUPPLY UP IN TRACK SHROUD TO SUPPLY HEADER

FACTORY INSULATED PVC RETURN HEADER INSIDE S.S. CURB, IN UPPER PORTION OF TRACK.

FACTORY INSULATED PVC RETURN HEADER INSIDE S.S. CURB, IN LOWER PORTION OF TRACK.

PLAN VIEW

PLUMBING EQUIPMENT SCHEDULE

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<tr>
<th>MAKE</th>
<th>ITEM</th>
<th>EQUIPMENT</th>
<th>LOCATION</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>DEVT-1</td>
<td>BACK FLOOR FRESHENER</td>
<td>REFRIGERATOR</td>
<td>WATER/FOOD CART</td>
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HEAT TRACE SCHEDULE

SUPPLY, GLYCOL INSULATION AND TIES TO BE PLACED IN TRACK MANIFOLD.

MECHANICAL AND PLUMBING SECTIONS, DETAILS, AND SCHEDULES

Construction Documents November 22, 2021

Pokagon State Park Toboggan Run Piping Upgrades
Public Works Project No. ENG2003780646
EXISTING STAINLESS SHEET NUMBER

CUT SHROUD ON A

ORIGINAL SHEET SIZE IS 24" X 36" (ARCH D)

INSTALLATION OF DRAIN FIXTURE.
REPAIR SLAB AROUND DRAIN FOR CUT EXISTING SLAB FOR A FINISHED SURFACE
REINSTALL EXISTING LOWER SUPPORT. FOLD END OVER EXISTING SHROUD.
EXISTING SHROUD FOOT OF PIPE STRAP LOWER SUPPORT

3" LONG CONCRETE WEDGE WASHER, AND HEX NUT. ALL ANCHORS, 1/2" THREADED ROD, NYLON BLOCK. SECURE WITH FOUR CORNER OF NYLON SHEET. CONCRETE WEDGE ANCHORS WITH 4"X3"X7"

1. INSULATION 3" OR 2" SCH 40 PVC GLYCOL BELOW PIPE
2. ALTERNATE #1 IS ACCEPTED. ADD ALTERNATE #1:

EXPANSION JOINT LABEL DETAIL

PLAN VIEW

PIPE BRANCH CONNECTION DETAIL FOR EVEN NUMBERED VALVE VAULT TIE-IN

PLAN VIEW

PIPE GUIDE DETAIL

PLAN VIEW

PIPE CONNECTION DETAIL FOR ODD NUMBERED VALVE VAULT TIE-IN

PLAN VIEW

CONCRETE CAULKED PIPE CONNECTION

PLAN VIEW

EXPANSION JOINT DETAIL FOR ODD NUMBERED TRACK SHROUD

PLAN VIEW

HEAT TRACE DETAIL

PLAN VIEW

BACKFLOW PREVENTER DETAIL

PLAN VIEW

CREATE DRAIN OPENINGS AT EACH MAIN TRACK SHROUD

PLAN VIEW

EXISTING STAINLESS STEEL SHROUD

PLAN VIEW

CREATE DRAIN OPENINGS HERE

PLAN VIEW

TRACK SHROUD DRAIN DETAIL

PLAN VIEW

EXANDTION JOINT DETAIL FOR EVEN NUMBERED TRACK SHROUD

PLAN VIEW

EXISTING TRACK SHROUD DRAIN DETAIL

PLAN VIEW

INSTALLATION WITH STAINLESS STEEL TRACK HINGED CAST IRON COVER. COORDINATE SHROUD TO AVOID INTERFERENCE

PLAN VIEW

PROJECT NO.

PLAN VIEW

DEPARTMENT OF NATURAL RESOURCES

Project No.

Construction Documents

November 22, 2021

Pokagon State Park

Pokagon State Park Tobagon Run Piping Upgrades

Construction documents

Public Works Project No. ENG2003730646

Public Works Project No.

MDJ

TMA

N/H

OCT

Sheet Name

MP502
1. REPLACEMENT OF LIGHT POLES WILL NOT BE INCLUDED IN THIS WORK. SEE ADD ALTERNATE #2 FOR ADDITIONAL INSTRUCTIONS.
2. PUMP P-1 WILL BE REPLACED. COORDINATE WITH MECHANICAL CONTRACTOR TO PERFORM A DE-TERMINATION AND A RE-TERMINATION. REFERENCE MECHANICAL DRAWINGS FOR FURTHER INFORMATION.

**GENERAL NOTES:**

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
2. COORDINATE WORK WITH ALL OTHER DISCIPLINES.
3. EXISTING DEVICES, CIRCUIT NUMBERS, AND LOCATIONS ARE BASED ON CASUAL OBSERVATION, HISTORICAL DOCUMENTS, AND CONVERSATIONS WITH OWNER. NOT ALL EXISTING DEVICES, LIGHTING FIXTURES, ETC. MAY BE SHOWN. CONTRACTOR SHALL FIELD VERIFY ALL ELECTRICAL EQUIPMENT PRIOR TO REMOVAL.
4. ALL DEVICES, EQUIPMENT, ETC. SHOWN ON THIS DRAWING TO REMAIN SHALL BE REMOVED FROM THE EXISTING MIES AND STORED IN A SECURED LOCATION. Aforder SHALL FIELD VERIFY ALL ELECTRICAL EQUIPMENT PRIOR TO REMOVAL.
5. PROVIDE NEW PANEL DIRECTORIES IN PANEL(S) BEING REVISED AS PART OF THIS PROJECT.
6. ELECTRICAL CONTRACTOR SHALL VERIFY AVAILABILITY AND CAPACITY OF EACH CIRCUIT AND DISTRIBUTION SYSTEM PRIOR TO INSTALLATION.
7. ALL CIRCUITS SHALL CONSIST OF 3/4"C, 2-#12 & #12 GND UNLESS OTHERWISE NOTED. DEVICE SHALL BE WIRED TO CIRCUIT INDICATED. AVAILABILITY OF NEW CIRCUITS SHALL BE VERIFIED BY CONTRACTOR AND FIELD ASSIGNED.
8. REFER TO DRAWING E501 FOR LIGHTING FIXTURE SCHEDULE.
9. INSTALLATIONS SHALL INCLUDE ALL EQUIPMENT, MATERIAL AND ALL ASSOCIATED HARDWARE FOR A COMPLETE SYSTEM.
10. STORE AND PROTECT ALL EQUIPMENT IN A CLEAN, DRY LOCATION UNTIL READY FOR INSTALLATION.
11. CALL 411 FOR A UTILITY LOCATE PRIOR TO DIGGING OR ANY UNDERGROUND CONSTRUCTION ACTIVITY. PROTECT ALL EXISTING BURIED UTILITIES FROM DAMAGE.

**PLAN NOTES:**

1. ADD ALTERNATE #2
2. PROVIDE LP#6-8,1-1 LPI
3. PROVIDE LP#6-8,1-1 LPI
4. PROVIDE LP#6-8,1-1 LPI
5. PROVIDE LP#6-8,1-1 LPI
6. PROVIDE LP#6-8,1-1 LPI
7. PROVIDE LP#6-8,1-1 LPI
8. PROVIDE LP#6-8,1-1 LPI
9. PROVIDE LP#6-8,1-1 LPI
10. PROVIDE LP#6-8,1-1 LPI
11. PROVIDE LP#6-8,1-1 LPI
12. PROVIDE LP#6-8,1-1 LPI
ELECTRICAL MIDDLE TRACK PLAN AND PROFILE

GENERAL NOTES:
1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES, ORDINANCES AND REQUIREMENTS.
2. ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS ARE BASED ON JANS, INC.
3. CONTACT MANUFACTURER FOR ANY QUESTIONS REGARDING HEAT TRACE SYSTEM DESIGN AND INSTALLATION.
4. MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED TO THE LETTER.
5. CONTRACTOR SHALL VERIFY AVAILABILITY AND CAPACITY OF EACH HEAT TRACE RUN PRIOR TO INSTALLATION.
6. INSTALLATION WILL OCCUR IN CONJUNCTION WITH THE ELECTRICAL CONSTRUCTION ACTIVITY. PROTECT ALL EXISTING UPLINES FROM DAMAG.
**ELECTRICAL LOWER TRACK PLAN AND PROFILE**

### GENERAL NOTES:

1. **All work shall be performed in accordance with all federal, state and local codes and regulations.**
2. **Prior to installation, all existing devices, junction boxes, and line numbers are based on casual coordination with all disciplines; however, final coordination shall be performed by the electrical contractor.**
3. **Heat trace systems shall be designed and installed in accordance with the manufacturer’s recommendations.**
4. **All equipment shall be installed on a concrete base plate with drainage provisions.**
5. **Electrical contractor shall verify availability and capacity of each electrical service company prior to installation.**
6. **All equipment shall be identified and the manufacturer’s recommendations adhered to.**
7. **All equipment, conduit, and cable shall be installed in accordance with the manufacturer’s recommendations.**
8. **All equipment shall be identified and the manufacturer’s recommendations adhered to.**
9. **All equipment, conduit, and cable shall be installed in accordance with the manufacturer’s recommendations.**
10. **All work shall be performed in accordance with all federal, state, and local codes and regulations.**

### PLAN NOTES:

1. **Heat trace systems shall be designed and installed in accordance with the manufacturer’s recommendations.**
2. **All equipment shall be identified and the manufacturer’s recommendations adhered to.**
3. **All equipment, conduit, and cable shall be installed in accordance with the manufacturer’s recommendations.**
4. **All work shall be performed in accordance with all federal, state, and local codes and regulations.**

**ADD ALTERNATE #2:**

- **Replacement of light poles and light fixtures shall be included only if the project scope includes removing existing outdoor light poles and light fixtures.**
- **New light poles and light fixtures shall be provided and installed in accordance with the manufacturer’s recommendations.**
- **All existing devices, junction boxes, and line numbers are based on casual coordination with all disciplines; however, final coordination shall be performed by the electrical contractor.**
- **Heat trace systems shall be designed and installed in accordance with the manufacturer’s recommendations.**
- **All equipment shall be installed on a concrete base plate with drainage provisions.**
- **Electrical contractor shall verify availability and capacity of each electrical service company prior to installation.**
- **All equipment shall be identified and the manufacturer’s recommendations adhered to.**
- **All equipment, conduit, and cable shall be installed in accordance with the manufacturer’s recommendations.**
- **All work shall be performed in accordance with all federal, state, and local codes and regulations.**
POWER CONNECTOR SIZE INDICATED
COMPONENTS HOUSED INSIDE AT NO
ON APPROVED EQUIPMENT
COORDINATE WITH HEAT TRACE
SUBMITTAL. MODIFY HEIGHT TO
ADDITIONAL COST TO OWNER.
ALLOW SPACE FOR ALL
APPROXIMATE HEIGHT.

TOP SHROUD
PLATE LIP OVER
FOLD 1" BASE
TOP SHROUD

BASE PLATE

NOTE;
ANCHOR BOLT (2) MIN.
ONLY (1) ENCLOSURE
1.
2.
SUPPORT REQUIRES
PER SUPPORT LEG
#6 GROUNDING WIRE
GROUND IN 1/2" PVC
#6 BARE COPPER
ABOVE GRADE AND EXTEND
FOR BASE.
USE 4000 LBS. 7 DAY
STRENGTH CONCRETE
MINIMUM 2'-0 BELOW
GRADE
STEEL GROUND ROD.
5/8" x 10' COPPER CLAD
FINISHED GRADE
EXOTHERMIC
CONNECTION
USE SONOTUBE FORM
TO 12" BELOW GRADE.

HEAT TRACE CONDUIT CONNECTION DETAIL
SCALE:
NONE
PLAN VIEW
SECTION VIEW LOOKING WEST
BASE PLATE
LENGTH OF
NONE
PLATE TO ALLOW SPACE FOR
NOTCH TOP SHROUD AND BASE
TRACK SHROUD AND PIPE GUIDES

HEAT TRACE CONTROL ENCLOSURE SUPPORT DETAIL
SCALE:
NONE
PLAN VIEW
SECTION VIEW FROM PANEL LP
(1) CONDUIT TO HEAT TRACE CABLES
(5) CONDUITS TO HEAT TRACE STEPS

HEAT TRACE CONTROL PANEL DETAIL
SCALE:
NONE
PLAN VIEW
SECTION VIEW
HEAT TRACE POWER CONNECTOR, TYP 4.
TEEL GROUND ROD.
5/8" x 10' COPPER CLAD
FINISHED GRADE
EXOTHERMIC
CONNECTION
USE SONOTUBE FORM
TO 12" BELOW GRADE.

HEAT TRACE CONDUIT CONNECTION DETAIL
SCALE:
NONE
PLAN VIEW
SECTION VIEW
HEAT TRACE POWER CONNECTOR, TYP 4.
BURIED POWER AND
CONTROL CONDUITS
TO HEAT TRACE PANEL
DESIGNED BY
ENG2003709646
CERTIFICATION
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