1. SEE DWG G-02 FOR AMENITIES AND LEGEND.
2. MUT CD Những and other true features are not shown. Provide site, access and construction and installation areas. See specs.
3. SITE DR D D D for typical trench sections.
4. SITE DWG D-01 for current mortar lined and coated pipe. OR AS O D H subject to change without notice.

**GENERAL NOTES**

1. SURVEY FROM 2017 AND 2015 LAND SURVEYS.
2. APPROXIMATE LOCATION CORRESPONDING TO LOCATION OF TAX LOT OR PROPERTY LINE IN PLAN.
3. VERIFY SCALE.
4. PROVIDE NAVIGATION MARKER, SEE DETAIL 1 ON DWG.
5. PROVIDE SIGN ON NAVIGATION MARKER WITH WARNING TO AVOID SUBSURFACE OUTFALL.
6. CONCRETE REVETMENT MATERIAL. SEE DET 3 ON DWG.

**KEYNOTES (C)**

1. SEE DWG D-01 FOR CONSTRUCTION AND ACCESS DIRECTIONS.
2. APPROXIMATE LOCATION CORRESPONDING TO LOCATION OF TAX LOT OR PROPERTY LINE IN PLAN.
3. PROVIDE NAVIGATION MARKER, SEE DETAIL 1.
4. OHWM REF FOR SURVEY POINTS.
5. CONCRETE REVETMENT MATERIAL. SEE DET 3.
6. REMOVE EXISTING OUTLET PIPE DIFFUSERS, 48" I.D. HDPE UNLESS SHOWN OTHERWISE.
7. PROVIDE NAVIGATION MARKER, SEE DETAIL 1 OR DET.

**DIFFERENCE IN GRADE RESULTING FROM LIMITS OF**

**N-VALUE**

1. SITE DR D D D for typical trench sections.
2. PROVIDE NAVIGATION MARKER, SEE DETAIL 1.
3. PROVIDE SIGN ON NAVIGATION MARKER WITH WARNING TO AVOID SUBSURFACE OUTFALL.
4. CONCRETE REVETMENT MATERIAL. SEE DET 3.
5. OHWM REF FOR SURVEY POINTS.

**CONCRETE REVETMENT MATERIAL. SEE DET 3 ON DWG.**
1. SEE GENERAL NOTES ON PP-01.

GENERAL NOTES

1. SEE GENERAL NOTES ON PP-01.

KEYNOTES ( )

1. USE EMBOSS OR FOR CONTRACTOR STAGING AND ACCESS DETAILS

2. LAND OWNERSHIP, TYP. FIELD VERIFY LOCATION OF TAX LOT OR PROPERTY LINE IN A PLAN, FIELD VERIFY PROPERTY BOUNDARY FROM SURVEY.

2. PROVIDE AIR VALVE. SEE DET 1 ON DWG D-03. PLACE AT HIGH POINT IN PIPE, FIELD VERIFY.

3. PROVIDE AIR VALVE. SEE DET 1 ON EXISTING OUTFALL, SEE DET 1 ON DWG D-03. PLACE AT HIGH POINT IN PIPE, FIELD VERIFY.

4. PROVIDE GRANULAR IMPORT FILL MATERIAL PILES, AND RIP RAP OVERLAYING AND PROTECTING REMOVE EXISTING OUTFALL PIPE, SUPPORTING PIPELINE EFFLUENT Existing OUTFALL PIPE, SUPPORTING PIPE ANDellan EYES OPENING AND PROTECTIVE TIES. PROVIDE DRAINAGE IMPORT FILL MATERIAL TO ALL Voids AND REINFORCE PIPELINE TO ELIMINATE BURNT RIMPLES.

4. DEMOLISH FOR CONTRACTOR STAGING AND ACCESS DETAILS.

SEE GENERAL NOTES ON PP-01.
GENERAL NOTES

1. SEE GENERAL NOTES ON PP-11.

KEYNOTES (○)

1. NOT DESIGNED FOR CONTRACTOR STAGING AND ACCESS DETAIL.

2. LANDownerSHIP TOP APPROXIMATE LOCATION CORRESPONDING TO LOCATION OF TAX LOT #70-10-00-016-0000 TO IDENTIFY PROPERTY PARCEL.

3. ADJOINING ACCESSES MANGUEN: BIW (LRT) ON 03/30/19

4. INSTALL LITE FENCING.

REVISION BY

CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.
GENERAL NOTES

1. BEG GENERAL NOTES ON PP-01.

2. AND CONSTRUCT TYP. APPROXIMATE LOCATION CORRESPONDING TO LOCATION OF TAX LOT OR OTHER PROPERTY LINE. VERIFY PROPERTY LINE IN PLAN. FIELD VERIFY PROPERTY LINE IN FIELD.

3. PLACE AND COMPACT IMPORT FILL MATERIAL IN PLANNED CONSTRUCTION LIMITS. PLACE AND COMPACT 6" OF CRUSHED SURFACING ON FILL AND GRADE TO MATCH EXISTING.

4. NOTIFY UTILITY PURVEYORS 3 WEEKS BEFORE CONSTRUCTION NEAR THEIR UTILITIES. PRESERVE BOUNDARY FROM SURVEY.

5. INSTALL HI-VIZ FENCING.

KEYNOTES (○)

1. SEE PP-01 OR FOR CONTRACTOR STAGING AND ACCESS DETAILS.

2. AND CONSTRUCT TYP. APPROXIMATE LOCATION CORRESPONDING TO LOCATION OF TAX LOT OR OTHER PROPERTY LINE. VERIFY PROPERTY LINE IN PLAN. FIELD VERIFY PROPERTY LINE IN FIELD.

3. PLACE AND COMPACT IMPORT FILL MATERIAL IN PLANNED CONSTRUCTION LIMITS. PLACE AND COMPACT 6" OF CRUSHED SURFACING ON FILL AND GRADE TO MATCH EXISTING.

4. NOTIFY UTILITY PURVEYORS 3 WEEKS BEFORE CONSTRUCTION NEAR THEIR UTILITIES. PRESERVE BOUNDARY FROM SURVEY.

5. INSTALL HI-VIZ FENCING.
GENERAL NOTES

1. SEE GENERAL NOTES ON PT 41.

KEYNOTES (○)

1. SEE DWG D-02 FOR CONTRACTOR STAGING AND ACCESS DR DETAILS.
2. LAND DIMENSIONS: +1'-0" APPROXIMATE LOCATION CORRESPONDING TO LOCATION OF TAX LOT OR PROPERTY LINE AT JAIL. PLACE PROPERTY SURVEY FROM SURVEY.
3. CONNECT TO EXISTING PUMP STATION PIPING. NOT SHOWN. SEE DWG D-02 FOR PUMP STATION MODIFICATIONS.
4. PLACE AND COMPACT IMPORT FILL MATERIAL. PLACE 6" TOPSOIL TO MATCH EXISTING.
5. PROPERTY LINE IN PLAN. FIELD VERIFY PROPERTY CORRESPONDING TO LOCATION OF TAX LOT OR PROPERTY.
6. INSTALL HI-VIZ FENCING.
7. INSTALL PIPE MENDING.
OUTFALL AND TRENCH DETAILS

IN-WATER TRENCH TYPICAL SECTION

ONSHORE UNSHORED TRENCH SECTION

NOTES:

1. BACKFILL ABOVE ANGULAR ROCK WITH GRANULAR MATERIAL TO EXISTING RIVER BED ELEVATION, UNLESS OTHERWISE SHOWN.

2. INDICATED SLOPES ARE APPROXIMATIONS OF ANTICIPATED NATURAL. UNSHORED, LAYBACK BASED ON LIMITED GEOTECHNICAL INVESTIGATION. CONTRACTOR SHALL BE PREPARED FOR NATURAL LAYBACK OTHER THAN WHAT IS SHOWN.

3. CONTRACTOR SHALL SLOPE OR SHORE TRENCH IN CONFORMITY WITH ALL LOCAL, STATE, AND FEDERAL STANDARDS FOR SAFETY AND ENVIRONMENTAL PERMITS.

4. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXCESS NATIVE EXCAVATED MATERIAL FROM WATERWAY AND ALL DEBRIS, TRASH, OR RUBBLE ENCOUNTERED IN EXCAVATED MATERIAL.

5. HEAVY CONSTRUCTION EQUIPMENT SHALL NOT TRAVERSE THE PIPE UNLESS ADEQUATE PROTECTION APPROVED BY ENGINEER IS INSTALLED SUCH AS STEEL PLATES OR CLSM PIPE ENCASMENT.

6. DISPOSE OF EXCESS NATIVE MATERIAL NOT USED FOR BACKFILL OFFSITE.

7. CONTRACTOR SHALL COMPLETE TRENCH EXCAVATION WITHIN WETLAND AREAS. OUTSIDE WETLANDS, CONTRACTOR MAY UTILIZE SHORED OR UNSHORED EXCAVATIONS.

8. SEE GEOTECHNICAL REPORT FOR EXISTING SOIL INFORMATION AND TO STAY WITHIN EASEMENT LIMITS AS NECESSARY.

NOTES:

1. BACKFILL ABOVE ANGULAR ROCK WITH GRANULAR MATERIAL TO EXISTING RIVER BED ELEVATION, UNLESS OTHERWISE SHOWN.

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8. SEE GEOTECHNICAL REPORT FOR EXISTING SOIL INFORMATION AND TO STAY WITHIN EASEMENT LIMITS AS NECESSARY.
**Connection to Existing Outfall Pipe**

1. **Connection to Exst Outfall Pipe**

   - **Existing 48" Pipe**
   - **48" Concrete Cylinder Pipe**
   - **Transition Coupling**
   - **Existing 30" Concrete Cylinder Pipe**

2. **Existing Configuration**

   - **Existing Pump Structure**
   - **Existing Flex Coupling**
   - **10' x 12' Panel Vault**

3. **Lake River West Bank Reconstruction**

   - **Lake River**
   - **Flow**
   - **48" Steel Pipe**
   - **Cylinder Pipe Concrete**
   - **Existing 30"**
   - **10' x 12' Panel Vault**
   - **48" BFV**
   - **VAULT**
   - **10' x 12' Panel Vault**
   - **48" BFV**

**Notes:**

1. Prior to removing existing piping, install the 48" CPVC and reposition existing 30" flex for locations.

2. **Piping to Steel Pipe**

3. **Piping to Connect HDPE Flange**

4. **Transition Coupling**

5. **Restrained Flex Coupling**

6. **48" Concrete Pump Station**

7. **Existing 48" Pipe**

**Additional Information:**

- **Connection to Existing Pump Station Piping**
- **New Configuration**
- **10' x 42" Roof**
- **48" BFV**
- **Restrainted Flex Coupling**
- **48" Concrete Pump Station**
- **48" Concrete Pump Station**

**Dimensions:**

- **1" = X'**
- **3/16" = 1'-0"**
- **1" = 10'**

**Design Information:**

- **J. Kronski**
- **A. Finnegan**
- **D. Sun**

**Location:**

- **Columbia River Outfall and Effluent Pipeline Project**
- **Clark County, Washington**

**Date:**

- **February 2018**

**Scale:**

- **1" = 10'**

**Additional Notes:**

- **Verify scale bar is one inch on original drawing.**
TYPICAL CONTRACTOR STAGING AND ACCESS

GENERAL NOTES:
1. REQUIREMENTS ARE SHOWN FOR A TYPICAL CONSTRUCTION STAGING AREA. ROAD CENTERLINE IS SHOWN AS A DASHED LINE, ROADWAY MATERIALS CONTRACTOR STAGING AREAS ARE SHOWN AS DOTTED LINES, AND ACCESS AREAS IN USE ARE SHOWN AS A SOLID LINE.
2. DO NOT STORE FUELS OR OTHER COMBUSTIBLE MATERIALS WITHIN 100 FEET OF ROAD CENTERLINE.
3. PROVIDE WARNING AREA MARKINGS AND EQUIPMENT PARKING AREAS WHERE EXCAVATION WORKS ARE CONDUCTED WITHIN 100 FEET OF ROAD CENTERLINE.
4. PROVIDE WARNING AREA MARKINGS AND EQUIPMENT PARKING AREAS FOR EXISTING TOPSOIL EXTRACTION AREAS WHERE EXCAVATION WORKS ARE CONDUCTED WITHIN 100 FEET OF ROAD CENTERLINE.
5. PROVIDE WARNING AREA MARKINGS AND EQUIPMENT PARKING AREAS FOR EXISTING TOPSOIL EXTRACTION AREAS WHERE EXCAVATION WORKS ARE CONDUCTED WITHIN 100 FEET OF ROAD CENTERLINE.
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19. PROVIDE WARNING AREA MARKINGS AND EQUIPMENT PARKING AREAS FOR EXISTING TOPSOIL EXTRACTION AREAS WHERE EXCAVATION WORKS ARE CONDUCTED WITHIN 100 FEET OF ROAD CENTERLINE.
20. PROVIDE WARNING AREA MARKINGS AND EQUIPMENT PARKING AREAS FOR EXISTING TOPSOIL EXTRACTION AREAS WHERE EXCAVATION WORKS ARE CONDUCTED WITHIN 100 FEET OF ROAD CENTERLINE.

DATE: 3/27/2018
PLT# 17-01
PROJECT: 2018-001
REVISION: 00
DESIGN SUBMITTAL

TYPICAL CONSTRUCTION ROADWAY

GENERAL NOTES:
1. WATER CONSTRUCTION ROADWAY IS FOR EQUIPMENT, ACTIVITIES, AND ACCESS TO CONTRACTOR STAGING AREAS. ROAD CENTERLINE IS SHOWN AS A DASHED LINE, ROADWAY MATERIALS CONTRACTOR STAGING AREAS ARE SHOWN AS DOTTED LINES, AND ACCESS AREAS IN USE ARE SHOWN AS A SOLID LINE.
2. PROVIDE WARNING AREA MARKINGS AND EQUIPMENT PARKING AREAS FOR EXISTING TOPSOIL EXTRACTION AREAS WHERE EXCAVATION WORKS ARE CONDUCTED WITHIN 100 FEET OF ROAD CENTERLINE.
3. PROVIDE WARNING AREA MARKINGS AND EQUIPMENT PARKING AREAS FOR EXISTING TOPSOIL EXTRACTION AREAS WHERE EXCAVATION WORKS ARE CONDUCTED WITHIN 100 FEET OF ROAD CENTERLINE.
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COLUMBIA RIVER

LEGEND

Staging Area
Existing Outfall Pipe
Proposed New Outfall Pipe
Tax Lot
Temporary Easement
Permanent Easement

GENERAL NOTES

1. CONTRACTOR'S STAGING AND ACCESS ROADS ARE APPLICABLE TO STAGING AREAS AND ROADWAYS, IF NEEDED, TO ACCOMMODATE CONSTRUCTION ACTIVITY IN A MAN-SEQUESTERED MANNER AND SHALL NOT BE ALTERED WITHOUT APPROVAL IN WRITING OR COMPLIANCE WITH PROJECT ENVIRONMENTAL AND USE PERMITS. TOTAL AREA FOR STAGING AREAS SHALL NOT INCLUDE PRIVATE PROPERTY IF NOT REQUIRED PROVIDE OFFSITE.

2. REQUIRED PROVIDE OFFSITE. ROADWAYS IF NECESSARY TO ACCOMMODATE CONSTRUCTION ACTIVITY IN A MAN-SEQUESTERED MANNER AND ROADWAY AREAS.

3. CONTRACTOR'S STAGING AND ACCESS ROADS ARE APPLICABLE TO STAGING AREAS AND ROADWAYS, IF NEEDED, TO ACCOMMODATE CONSTRUCTION ACTIVITY IN A MAN-SEQUESTERED MANNER AND ROADWAY AREAS.

4. CONTRACTOR'S STAGING AND ACCESS ROADS ARE APPLICABLE TO STAGING AREAS AND ROADWAYS, IF NEEDED, TO ACCOMMODATE CONSTRUCTION ACTIVITY IN A MAN-SEQUESTERED MANNER AND ROADWAY AREAS.

5. CONTRACTOR'S STAGING AND ACCESS ROADS ARE APPLICABLE TO STAGING AREAS AND ROADWAYS, IF NEEDED, TO ACCOMMODATE CONSTRUCTION ACTIVITY IN A MAN-SEQUESTERED MANNER AND ROADWAY AREAS.

AERIAL PHOTOGRAPHY ©2013 GOOGLE EARTH

SCALE IN FEET

1" = X'
COLUMBIA RIVER

ENLARGED PLAN

PROFILE

N

ENLARGED PLAN & PROFILE

BATHYMETRY

RIVER BED FROM EXISTING

DIFFUSER

19 AT 15 FT SPACING. SEE DIFFUSER PILE SUPPORTS.

PORT, TYP. 10 EA @ 16'-0" OC

16" RISER WITH 16" DIFFUSER

MANHOLE, SEE ACCESS

ACROSS WALKWAY, SIDE

SSC-05-1808-0001

19-11

DIFFUSER PORT, TYP. 10 EA @ 16'-0" OC

EXISTING BATHYMETRY

SEE INSTALLATION FOR TYPICAL RISER

SEE 48" PIPE

48" PIPE

ENLARGED PLAN

S = 0.00%

S = 25.04%

D. SUNSERI

D-06

D-06_663264.dgn

D. WILSON

E N L A R G E D  P L A N  &  P R O F I L E

COLUMBIA RIVER
1. COAT ALL WELD/FABRICATION AREAS W/ PLASTITE 4500 100% SOLIDS EPOXY AFTER FABRICATION.
2. COAT ALL WELD/FABRICATION AREAS W/ 100% SOLIDS EPOXY AFTER FABRICATION.
3. SHAPED APPLIED CEMENT MORTAR COATING AFTER WELDING.
4. LEAVE SPACE FOR INSTALLATION OF FLANGE BOLTS, PLASTITE 4500 100% SOLIDS EPOXY COAT EXPOSED STEEL.
5. 3/8" STEEL WALL MANHOLE RISER.
6. 2" CEMENT MORTAR COATING.
7. SEE BOLTS HOLE, 1/4 L 4X3 BEHIND LONG SLOT VERT HOLE.
8. 2" CEMENT MORTAR COATING.
9. 1/4" BOLT
10. 36"x1/2" WALL MANHOLE RISER.
11. STD AWWA C207 CLASS D FLANGE.
12. 36" AWWA C207 CLASS D FLANGE.
13. 100% SOLIDS EPOXY 35 MIL.
14. 100% SOLIDS EPOXY.
15. 1/2" PIPE CM COATING
16. 2" CM COATING
17. 2" CEMENT MORTAR LINING.
18. REMOVE 25% DESIGN SUBMITTAL.
19. MATCH PIPE OD.
20. 3/8" X 3" WIDE ASTM A276, TYPE 304 SST.
21. 3/8" X 3" WIDE ASTM A276, TYPE 304 SST.
22. 3/4" ASTM F593, TYPE 316.
23. 3/8" ASTM F593, TYPE 316.
24. 1/2" STEEL PIPE STRAP DETAIL.
25. 3/8" PL.
26. 3/8" PL.
27. 3/4"=1'-0"
28. 3/4"=1'-0"
29. 3/4"=1'-0"
30. 3/4"=1'-0"
31. 1/2"=1'-0"
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46. 1/2"=1'-0"
47. 1/2"=1'-0"
GENERAL NOTES

1. DEMOLISH EXISTING PLANT EFFLUENT PUMP AND ASSOCIATED PIPING AND VALVES.

KEYNOTES ( )

1. POSSIBLE LOCATION FOR LINE STOP OR PLUG.
2. POSSIBLE LOCATION FOR TEMPORARY BYPASS.

PLAN

PIPE SUPPORT, TOP

PLANT EFFLUENT PUMP NO. 1

PLANT EFFLUENT PUMP NO. 2

PLANT EFFLUENT PUMP NO. 3

PLANT EFFLUENT PUMP NO. 4

EXIST 48" PIPE

EXIST 48" TEE IN BLIND PLANCER

EXIST 48" X 48" 30° CROSS
GENERAL NOTES

1. DEMO ALL EXISTING PLANT EFFLUENT PUMP ASSOCIATED PIPING AND VALVES

ASSOCIATED PIPING AND VALVES

1. DISCONNECT PUMP DISCHARGE PIPING
2. RELIEF VALVE CONNECTED TO P&ID
3. PUMP EXTRACTED TO HD

PUMP STATION

PS-02

PUMP NO. 4

PLANT EFFLUENT

DISCHARGE FLANGE

MATCH PUMP

END OF RDCR TO

ROUTE DISCHARGE TO HD

1" THREAD-O-LET.

CONNECT TO PIPE W/

1" AIR RELEASE VALVE

PRESSURE INDICATOR

AND PLUG FOR FUTURE

TAP ISOLATION VALVE

CHECK VALVE

WAFER STYLE

30" DOUBLE DISC

30" BUTTERFLY VALVE

30" PIPE

REDUCER

30" x 24"