DEMOLITION KEY NOTES

1. REMOVE, SERVICE, AND REINSTALL SURFACE WASH ARMS. TYPICAL OF 6 PER FILTER. TYPICAL OF FILTER 18 AND FILTER 20.

2. PROTECT SURROUNDING INSTRUMENTATION, ETC.


4. DEMOLISH STEEL HOLD-DOWN STRAPS AND ANGLES.

5. DEMOLISH GRAVEL AND STAINLESS STEEL #8 MESH RETAINING SCREEN. TYPICAL OF FILTER 18 AND FILTER 20. GRAVEL HIDDEN IN PLAN VIEW FOR CLARITY.

6. REPAIR BACKWASH TROUGH CONCRETE. SEE CONCRETE RESTORATION DETAIL.

7. RESTORE CONCRETE AT WALL PLATE. SEE DETAIL.

8. RESTORE CONCRETE AT FILTER WALL. SEE DETAIL.

9. REMOVE, STORE, AND REINSTALL RAILING AS NEEDED.

10. PROTECT FILTER CONTROL CONSOLE.

11. PROTECT EXISTING PIPING, VALVES, ETC.
FILTER 18 AND FILTER 20 WALKWAY HIDDEN FROM FILTER GALLERY PLAN FOR CLARITY OF BACKWASH TROUGHS AND SURFACE WASH ARMS.

FILTER 18 AND FILTER 20 MEDIA HIDDEN FROM PLANS FOR CLARITY.

FILTER 18 BACKWASH TROUGHS HIDDEN FROM FILTER GALLERY PLAN FOR CLARITY OF SURFACE WASH ARMS.

1. INSTALL NEW SEAL WITHIN FW/BWS PIPE AND NEW GASKET AT WALL PLATE. SEE DETAIL. TYPICAL OF FILTER 18 AND FILTER 20.

2. REINSTALL FW/BWS PIPE, STEEL WALL PLATE, AND FLANGED COUPLING ADAPTER. TYPICAL OF FILTER 18 AND FILTER 20.


4. INSTALL BLIND FLANGE AT WALL PIPE.

5. INSTALL 6" SS AIR SCOUR HEADER. PROVIDED BY FILTER UNDERDRAIN SUPPLIER.

6. INSTALL U-BOLT AIR SCOUR PIPE STAND. PROVIDED BY FILTER UNDERDRAIN SUPPLIER. (TYP)
NOTE:

- PROVIDE LEVEL GROUT STRIP, MINIMUM THICKNESS OF 1/2"
- 4" - WIDE GROUT STRIP FROM FILTER END TO END
- 5" - WIDE GROUT STRIP FROM FILTER END TO END ALONG FLUME OPENING
- EXISTING FLUME WALLS (BELOW)

- MECHANICALLY ABRAID EXISTING FILTER FLOOR TO CSP 5 PRIOR TO GROUT

- BASE PLATE
- AIR CONNECTION
- UNDERDRAIN LATERAL

- 16'-8" 1'-6" 5" 5" 5"
- 2'-1" 10" 5" 5" 5"

- FILTER UNDERDRAIN GROUT DETAIL
- UNDERDRAIN PLAN VIEW DETAIL
- UNDERDRAIN ANCHORING DETAIL - SIDE VIEW
- UNDERDRAIN ANCHORING DETAIL - END VIEW
- UNDERDRAIN ANCHORING DETAIL - MIDDLE VIEW

- 6" AIR SCOUR HEADER
- POLYVINYL TUBING

- MIN. EMBED. DEPTH

- EX. FLUME WALL
- EX. FILTER WALL

- GROUT SEAL STRIP
- GASKET
- ANCHORING ROD
- HOLD DOWN CLAMP
- ANCHOR BOLT
**EX. PIPE GALLERY WALL**

**EX. 20" STEEL WALL PIPE**

**INSTALL STAINLESS STEEL RETAINING BANDS (TYP OF 2 PER SEAL)**

**INSTALL EPDM RUBBER SEAL**

**EX. 20" STEEL PIPE AND WALL PLATE**

**EX. FLANGE COUPLING ADAPTER**

**EX. 20" STEEL TEE**

**EX. FILTER FLOOR**

**EX. FLUME**

**EX. FLUME FLOOR**

**EX. GULLET WALL**

**INSTALL EPDM RUBBER GASKET**

**NOTE:**

CLEAN, PREPARE, AND PAINT INTERIOR SURFACES OF PIPE, FITTINGS, ETC. WHERE CORROSION HAS OCCURRED, SEE REINFORCING DETAIL.

1'-0" MIN.

6"

1/4"x1" HYDROPHILIC WATERSTOP AROUND PIPE AND BONDED TO EXISTING CONCRETE CONTINUED ALL AROUND OPENING.

WATERSTOP TO BE NSF-61 CERTIFIED.

FORM 1/2"x3/4"x1" DEEP RECESS FOR DRY PACK GROUT

GRIND 1 1/2" WIDE SMOOTH CONTINUOUS SURFACE FOR WS INSTALLATION SLOPE TOP OF OPENING AS SHOWN TO PREVENT ENTRAPPED AIR POCKET

SAWCUT AND REMOVE EXISTING WALL. TAKE CARE NOT TO DISTURB EXISTING WALL REINFORCING

3'-6" 4'-0" 4'-0" 4'-0" 4'-0" 4'-0" 1'-6" 1'-6"

4" 4" 3" 2" 3" 2" 1 1/2" 1" X 1/2" VERTICAL SLOTS 3/8" 316 SS ANGLE

---

**NOTES:**

TYPICAL OF (6) BAFFLES PER FILTER DETAIL IS MEANT TO ILLUSTRATE MINIMUM DESIGN INTENT. IT IS THE RESPONSIBILITY OF THE SUPPLIER TO COMPLETE THE DESIGN AND SUBMIT FABRICATION LEVEL SHOP DRAWINGS.

---

**PROJECT NO.:**

City of Ann Arbor

Ann Arbor, Michigan

2024 Water Treatment Plant Improvements

**SHEET NO.:**

BP 231370

**PLOT INFO:**

© Copyright 2024 All Rights Reserved

REVISIONS

© Copyright 2024 All Rights Reserved

ANW Checker

City of Ann Arbor

Ann Arbor, Michigan

2024 Water Treatment Plant Improvements

6/3/2024 BIDS AND CONSTRUCTION

SHEET NO.

BP

231370

Autodesk Docs://231370/2022_PR_General_231370.rvt 6/4/2024 8:00:36 AM

P402