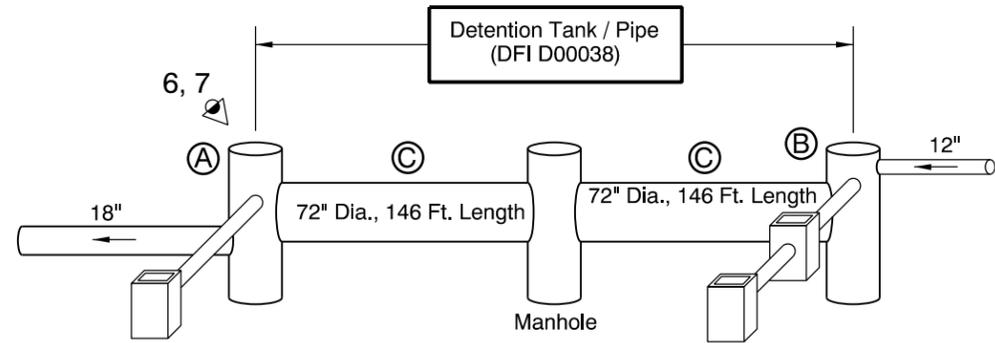


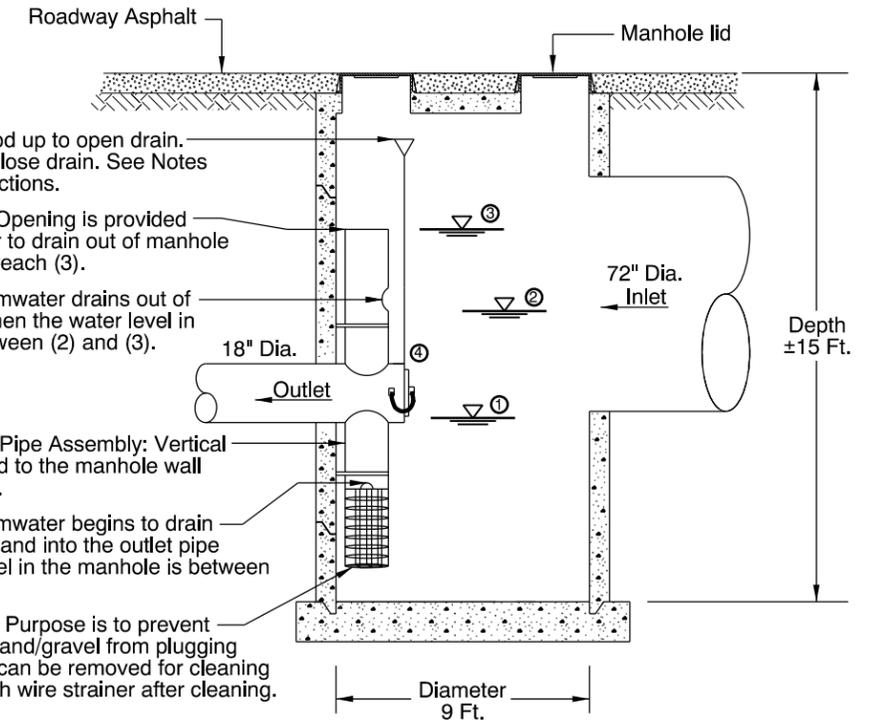
PLAN
N.T.S.



SCHEMATIC OF PIPE DRAINAGE SYSTEM
N.T.S.

LEGEND:

- ◁ Photo Location / Direction
- Ⓐ Flow Control Structure - 9' Dia.
- Ⓑ Southern Most Manhole
- Ⓒ Detention Pipe - 6' Dia.
- and ○ Manhole
- and □ Inlet
- Storm Pipe (Facility)
- - - Storm Pipe
- Conveyance Direction
- ~ Pavement / Facility Flow Path
- ▭ Inlet (Schematic View)



FLOW CONTROL STRUCTURE
N.T.S.

Control Rod: Pull rod up to open drain. Push rod down to close drain. See Notes for additional instructions.

Top of Riser Pipe: Opening is provided to allow stormwater to drain out of manhole when water levels reach (3).

Upper Orifice: Stormwater drains out of this small orifice when the water level in the manhole is between (2) and (3).

Flow Control Riser Pipe Assembly: Vertical riser pipe is secured to the manhole wall with support bands.

Lower Orifice: Stormwater begins to drain out of the manhole and into the outlet pipe when the water level in the manhole is between (1) and (2).

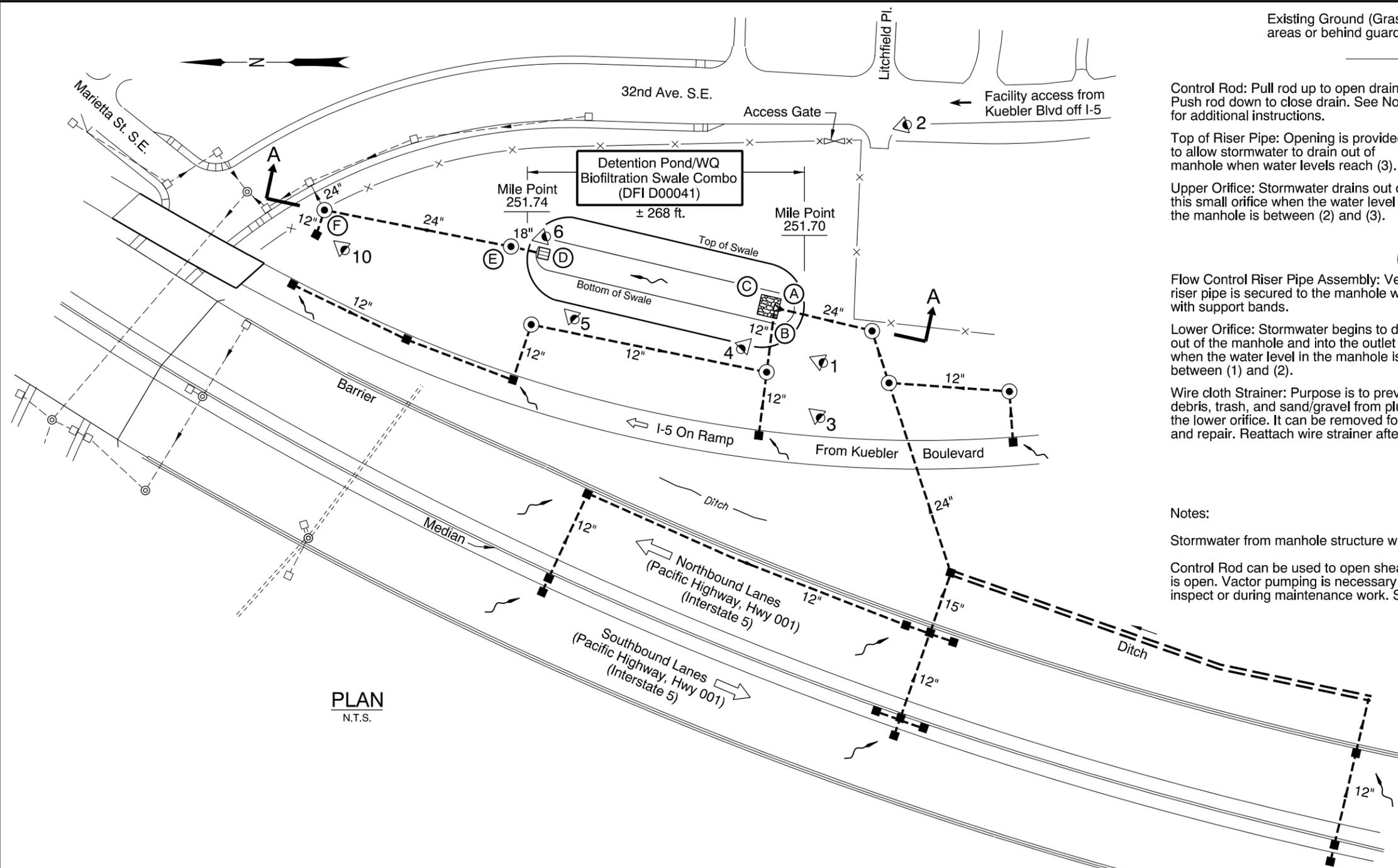
Wire cloth Strainer: Purpose is to prevent debris, trash, and sand/gravel from plugging the lower orifice. It can be removed for cleaning and repair. Reattach wire strainer after cleaning.

Notes:

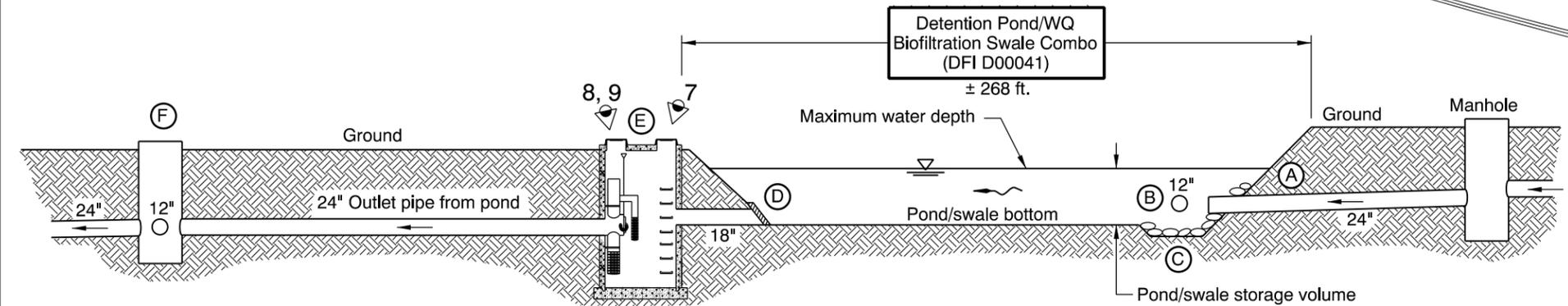
- Stormwater from manhole structure will drain into the outlet pipe when reaching elevations (1), (2), and (3).
- Control Rod can be used to open shear gate (4). Water level can be drained to (1) when the shear gate is open. Vactor pumping is necessary to remove water below (1). Draining manhole maybe necessary to inspect or during maintenance work. Shear gate is closed during normal operation.

Prepared By: Bob Knorr
Drafted By: Jim Holeman

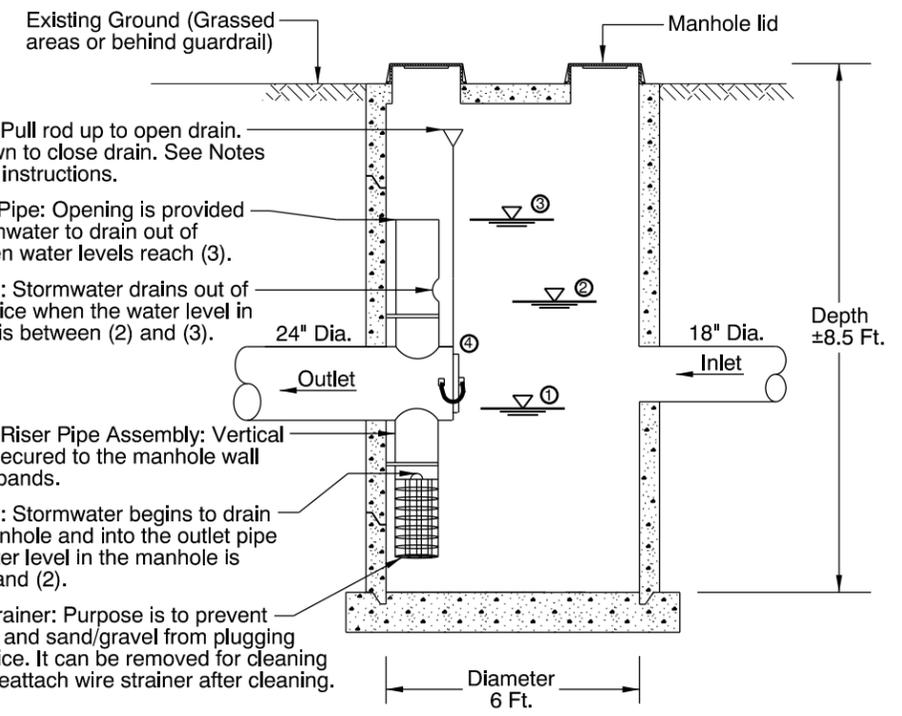
DFI D00038
MAINTENANCE DISTRICT 3 HWY 1
DETENTION TANK / PIPE
PACIFIC HIGHWAY MP 252.00-252.05
MARION COUNTY



PLAN
N.T.S.



SECTION A-A
N.T.S.



FLOW CONTROL STRUCTURE
N.T.S.

Control Rod: Pull rod up to open drain. Push rod down to close drain. See Notes for additional instructions.

Top of Riser Pipe: Opening is provided to allow stormwater to drain out of manhole when water levels reach (3).

Upper Orifice: Stormwater drains out of this small orifice when the water level in the manhole is between (2) and (3).

Flow Control Riser Pipe Assembly: Vertical riser pipe is secured to the manhole wall with support bands.

Lower Orifice: Stormwater begins to drain out of the manhole and into the outlet pipe when the water level in the manhole is between (1) and (2).

Wire cloth Strainer: Purpose is to prevent debris, trash, and sand/gravel from plugging the lower orifice. It can be removed for cleaning and repair. Reattach wire strainer after cleaning.

Notes:

Stormwater from manhole structure will drain into the outlet pipe when reaching elevations (1), (2), and (3).

Control Rod can be used to open shear gate (4). Water level can be drained to (1) when the shear gate is open. Vactor pumping is necessary to remove water below (1). Draining manhole maybe necessary to inspect or during maintenance work. Shear gate is closed during normal operation.

LEGEND:

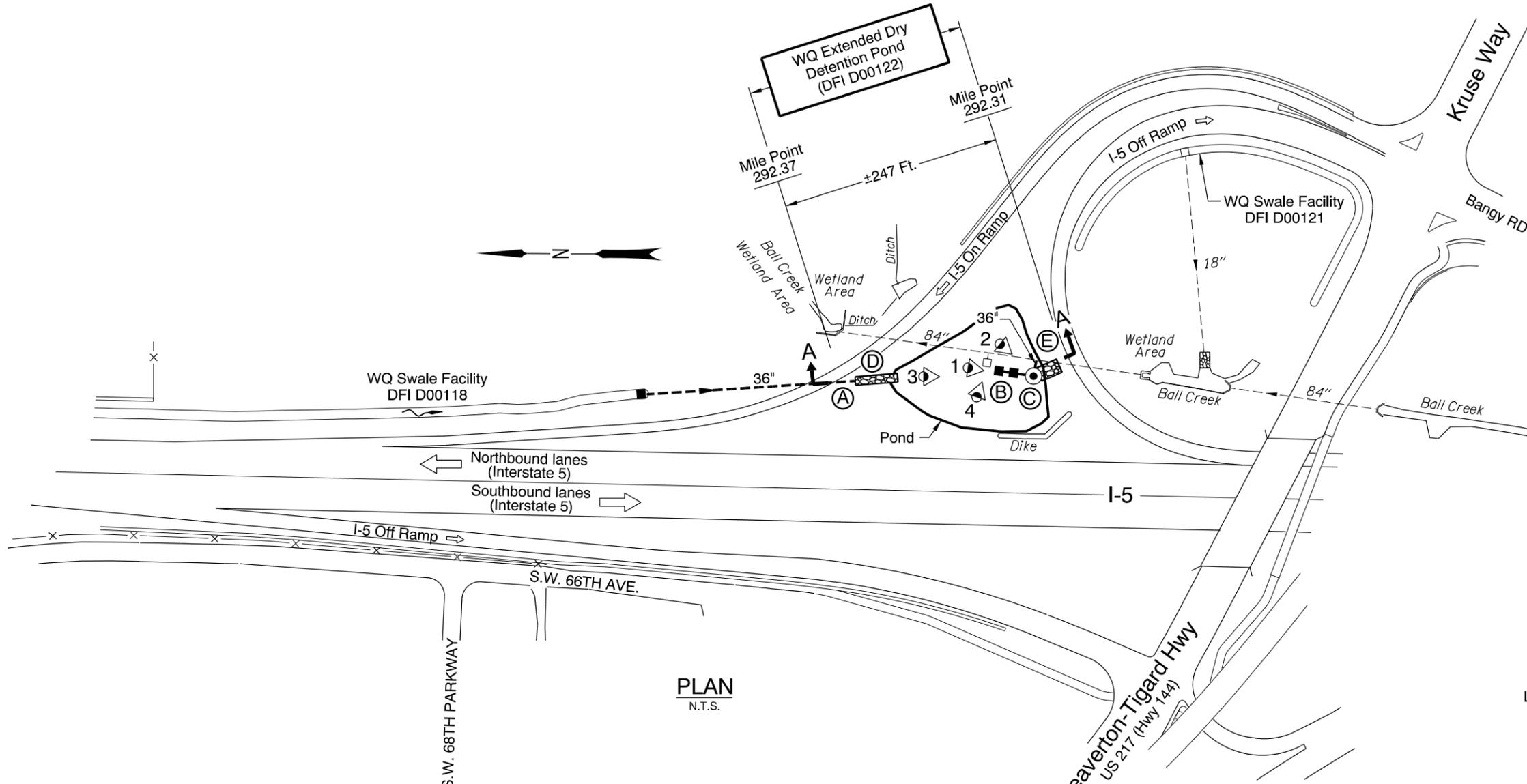
- ◁ Photo Location / Direction
- (A) Facility Inlet A
- (B) Facility Inlet B
- (C) Flow Spreader
- (D) Type 'D' Ditch Inlet Structure
- (E) Flow Control Manhole - 6' Dia.
- (F) Manhole Connecting Area
- Drain To Conveyance Line
- ⊗ Access Gate
- and ○ Manhole
- and □ Inlet
- Storm Pipe (Facility)
- Storm Pipe
- Conveyance Direction
- ~ Pavement / Facility Flow Path

Prepared By: Wynnee Hu
 Drafted By: Jim Holeman

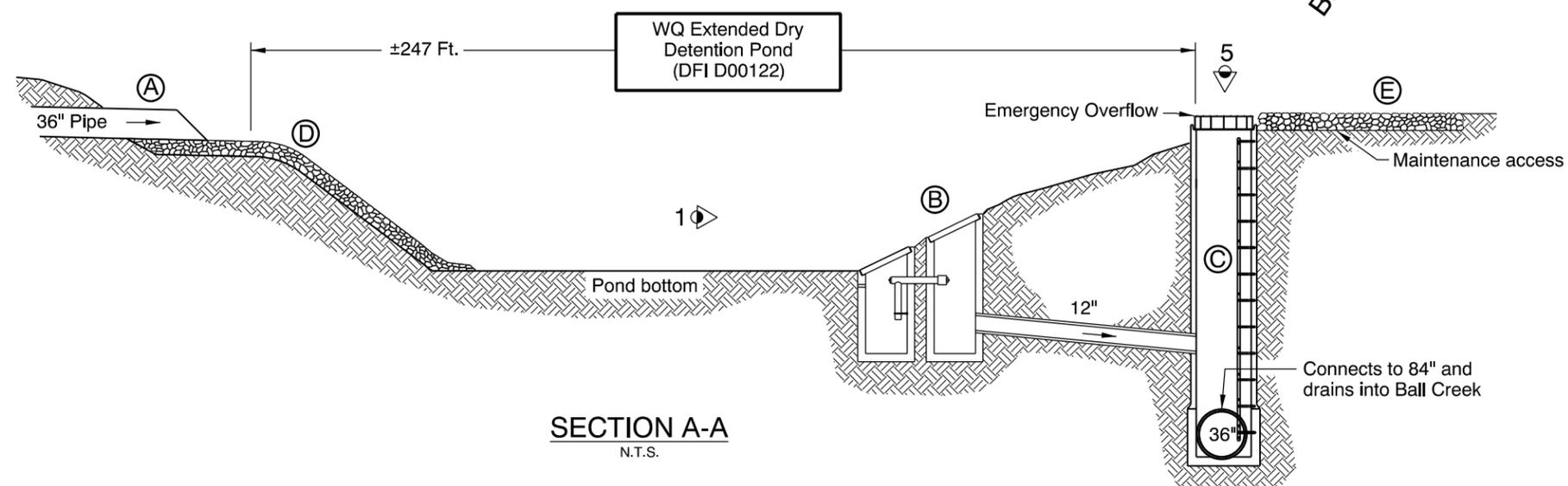
Sht. 1 of 1

OREGON DEPARTMENT OF TRANSPORTATION

DFI D00041
MAINTENANCE DISTRICT 3 HWY 001
DETENTION POND/WQ BIOFILTRATION SWALE
 PACIFIC HIGHWAY MP 251.70-251.74
 MARION COUNTY



PLAN
N.T.S.



SECTION A-A
N.T.S.

- LEGEND:**
- Photo Location / Direction
 - Pond Inlet
 - Control Structure Outlet
 - Special Manhole with emergency overflow grate
 - Riprap Splash Pad
 - Maintenance access
 - Manhole
 - Inlet
 - Storm Pipe (Facility)
 - Storm Pipe
 - Conveyance Direction
 - Pavement / Facility Flow Path

Sht. 1 of 1

OREGON DEPARTMENT OF TRANSPORTATION

Prepared By: M. Wittenbrink
 Drafted By: Jim Holeman

DFI D00122
MAINTENANCE DISTRICT 2B HWY 1
WQ EXTENDED DRY DETENTION POND
 PACIFIC HIGHWAY MP 292.32-292.37
 CLACKAMAS COUNTY