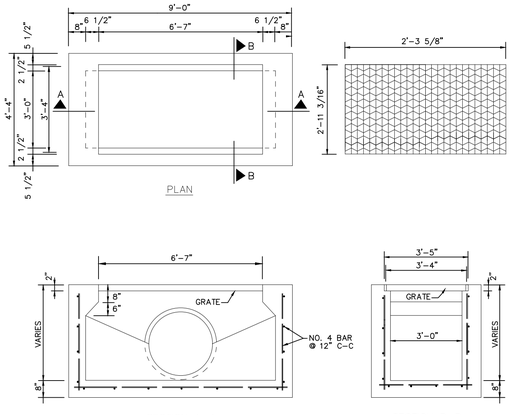
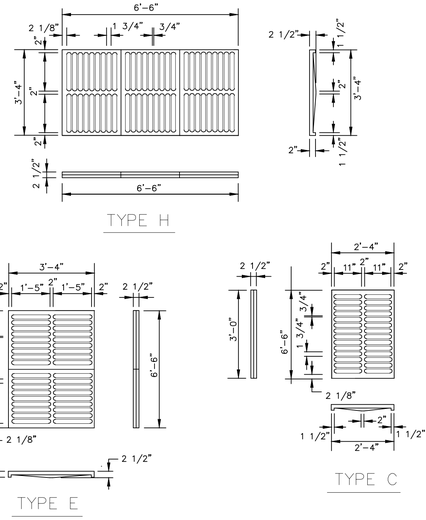
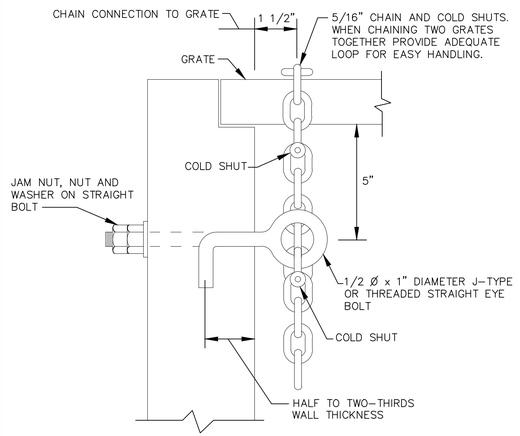



## TYPE "H" INLET

RECOMMENDED MAXIMUM PIPE SIZE
2'-0" WALL-18" PIPE
3'-1" WALL-24" PIPE



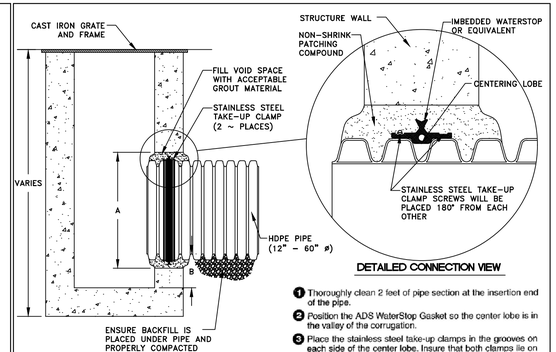

## CAST IRON GRATES




NOTE: WHEN ALTERNATE "G" GRATE IS SPECIFIED, THE CHAIN, BOLT, NUTS, WASHER AND COLD SHUTS SHALL BE GALVANIZED IN ACCORDANCE WITH THE SPECIFICATIONS FOR THE GRATE.

COST OF EYE BOLT AND CHAIN TO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR INLETS.

## EYE BOLT AND CHAIN FOR LOCKING GRATES




DETAILED CONNECTION VIEW

INSTALLATION VIEW

1. Thoroughly clean 2 feet of pipe section at the insertion end of the pipe.
2. Position the ADS WaterStop Gasket so the center lobe is in the valley of the corrugation.
3. Place the stainless steel take-up clamps in the grooves on each side of the center lobe. Insure that both clamps lie on the crest of the pipe corrugations.
4. Position the take-up clamp screws 180° from each other. Using a torque ratchet or torque wrench, gradually tighten both screws of each clamp to 60 lbs./inch torque. Do not overtighten. A screw driver will not tighten clamps adequately.
5. Apply a good quality concrete bonding agent to the structure opening.
6. Insert pipe into the structure opening. Make sure that the ADS WaterStop is fully within the plane of the structure's wall. **If mortaring in place,** apply and compact non-shrink grout around the ADS WaterStop and between the pipe and the opening, taking care to fill the voids. Make sure that the ADS WaterStop Gasket does not contact the bare structure walls. **If pouring in place,** use concrete of sufficient slump to permit complete flow around the pipe and ADS WaterStop. Thoroughly vibrate all around the pipe and ADS WaterStop Gasket to complete compaction and to release any trapped air.
7. Allow concrete or mortar to fully cure before testing or backfilling. If the system is to be tested, testing should be completed prior to backfilling around the structure, following all recommendations and requirements of the test system manufacturer. Plug any vent holes in the N-12 pipe prior to testing.
8. Backfill the N-12 pipe following recommendations in ADS Product Note 3.115, *Installing N-12 Storm, Sanitary Sewer and Culvert Pipe.*

INSTALLATION RECOMMENDATIONS

| PIPE SIZE (IN) | PIPE OD (IN) A-PROFILE | PIPE OD (IN) H-PROFILE | "A" MIN. HOLE Ø | "B" MIN. DISTANCE PIPE INVERT TO STRUCUTRE INVERT (IN) |
|---|---|---|---|---|
| 12 | 14.5 | 14.2 | (Ø) | 3.7 |
| 15 | 17.6 | 17.8 | 23.00 | 4.0 |
| 18 | 21.2 | 21.5 | 26.50 | 4.2 |
| 24 | 27.8 | 28.4 | 33.25 | 4.5 |
| 30 | 35.1 | 35.5 | 40.50 | 5.2 |
| 36 | 41.1 | 41.4 | 47.00 | 5.5 |
| 42 | 47.7 | 48.0 | 53.00 | 5.7 |
| 48 | 53.6 | 54.0 | 59.00 | 5.7 |
| 60 | 66.3 | 67.3 | 72.00 | 6.4 |

## WATER STOP SEAL

ENGINEERING STANDARDS 2022

| REVISIONS BY | DATE | ENGINEERING DIVISION CITY OF POMPANO BEACH | TYPE "H" INLET | DATE: JUNE 2022 DWG. NO. 403-1 |
|---|---|---|---|---|
| S.S. | 09-11 | SCALE: N.T.S. | | |

ENGINEERING STANDARDS 2022

| REVISIONS BY | DATE | ENGINEERING DIVISION CITY OF POMPANO BEACH | CAST IRON GRATES | DATE: JUNE 2022 DWG. NO. 410-1 |
|---|---|---|---|---|
| | | SCALE: N.T.S. | | |

ENGINEERING STANDARDS 2022

| REVISIONS BY | DATE | ENGINEERING DIVISION CITY OF POMPANO BEACH | EYE BOLT AND CHAIN | DATE: JUNE 2022 DWG. NO. 413-1 |
|---|---|---|---|---|
| | | SCALE: N.T.S. | | |

ENGINEERING STANDARDS 2022

| REVISIONS BY | DATE | ENGINEERING DIVISION CITY OF POMPANO BEACH | WATER STOP SEAL | DATE: MAY 2022 DWG. NO. 414-1 |
|---|---|---|---|---|
| TCW | 04-08 | SCALE: N.T.S. | | |

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Florida Landscape Architecture Business License: LC26000457

REVISIONS

| NO. | DESCRIPTION | DATE |
|---|---|---|

RESPONSIBILITY FOR THE USE OF THESE PLANS PRIOR TO OBTAINING PERMITS FROM ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT WILL FALL SOLELY UPON THE USER.

| | |
|---|---|
| ISSUE DATE: | 02/25/25 |
| DESIGNED BY: | BB |
| DRAWN BY: | BB/FA |
| CHECKED BY: | NW |
| BID-CONTRACT: | |

This item has been digitally signed and sealed by **NILES T. WARRICK, P.E.** on the date adjacent to the seal.

NILES T. WARRICK LICENSE No. 94320 STATE OF FLORIDA PROFESSIONAL ENGINEER

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

2025.04.15 23:05:37-04'00'

**NILES T. WARRICK, P.E.**
**FLORIDA REG. NO. 94320**
**(FOR THE FIRM)**

CLIENT

**PORTMAN HOLDINGS**

PROJECT

**2400 E ATLANTIC**
**2400 East Atlantic Blvd.**
**Pompano Beach, FL**

SHEET TITLE

WATER AND SEWER DETAILS

| | |
|---|---|
| SHEET NUMBER | CU-506 |
| PROJECT NUMBER | 14267.00 |

AAC

PZ25-12000001

08/06/2025

Plotted by: bbaldwin On 4/15/2025 5:52 PM

Drawing name: H:\14267.00 - 2400 E Atlantic - Portman Holdings\Engineering\Cadd\14267.00-CU-5XX.dwg

STATUS: DRC SET