

City of Celina
CONSTRUCTION GENERAL NOTES – 4/16/2013

GENERAL

1. All construction shall be in accordance with the latest revision of the North Central Texas Council of Governments "Standard Specifications for Public Works Construction" including the Standard Drawings therein and the City of Celina's addendum thereto. Contractor shall have at least one set of approved Engineering Plans and Specifications on-site at all times.
2. Before beginning construction, the contractor shall prepare a construction sequence schedule. The construction schedule shall be such that there is minimum interference with traffic along or adjacent to the project.
3. Construction may not begin earlier than 7:00 A.M. on weekdays nor continue after dark without permission from the City of Celina. Construction on holidays and Saturday must be approved two days in advance. A fee of \$300.00 a day for working on holidays and Saturday will be assessed payable to the city before work is performed. Work may not begin before 8:00 A.M. on holidays and Saturday and work on Sunday is prohibited without special permission and payment of fees.
4. Utilities shown on the plans were taken from field surveys and information provided by the utility companies. The completeness and the accuracy of this data is not guaranteed.

The contractor is responsible for verifying the location of all underground utilities and structures and protecting them from damage during construction.

It will be the responsibility of each contractor to protect all existing public and private utilities throughout the construction of this project. Contractor shall contact the appropriate utility companies for line location prior to commencement of construction and shall assume full liability to those companies for any damages caused to their facilities.

DIG TESS	800-DIG-TESS
GCEC-TELECOM	903-482-7274
GCEC-ELECTRIC	903-821-3007
AT&T	972-569-3013
ATMOS ENERGY	972-881-4161
ATMOS ENERGY	214-341-9900
CROSTEX ENERGY	817-570-6753
ONEOK	903-257-6594
COSERV-ELEC	940-321-7800
COSERV-GAS	940-321-7800
CITY OF CELINA	972-382-2682

CITY OF PROSPER	972-347-9969
MARILEE SUD	972-382-3222
GRANDE	972-410-0583
SUDDEN LINK	469-853-0486

5. Work may not be backfilled or covered until the City has inspected it.
6. Material testing shall be performed by an independent testing laboratory and paid for by the Contractor. The following material tests shall be provided by the Contractor:
 - a. Embankment - One soil density test shall be performed at each location for each 500 C.Y. of backfill placed.
 - b. Pavement Sub grade - One gradation test (where lime stabilized) and one soil density test shall be performed for each 100 linear feet of pavement unless otherwise noted.
 - c. Utility Trench Backfill - One soil density test shall be performed as directed by City of Celina.
 - d. Concrete Tests:
 - (1). Compressive Strength - as specified in the N.C.T.C.O.G. specifications or city specifications.
 - (2). Air Content - One test for each 25 C.Y. of concrete or fraction thereof unless otherwise noted.
 - (3). Slump - One test for each 9 C.Y. unless otherwise noted.

The City shall select the location and depth of each soil density test unless otherwise directed.

7. All excavation on the project is unclassified.
8. Temporary erosion control shall be used to minimize the spread of silt and mud from the project on to existing streets, alleys, drainage ways and public and private property. Temporary erosion controls may include silt fences, rock check dams, stabilized construction entrances, straw bales, berms, dikes, swales, strips of undisturbed vegetation, check dams and other methods as required by the City Manager or his representative and shall conform to the Storm Water Quality Best Management Practices for Construction Activities as published by the North Central Texas Council of Governments and the City of Celina Erosion and Sediment Control Manual.
9. Finished slopes on public rights-of-way and easements shall not be steeper than 4:1. All slopes steeper than 6:1 shall be covered with erosion control matting and are hydro mulched and maintained by the contractor until grass covers all parts of the slope.
10. The contractor shall maintain two-way traffic at all times along the project.
11. Remove, salvage and replace all street and traffic control signs, which may be damaged by the construction of the project.

12. All trenching and excavation shall be performed in accordance with OSHA standards. Trench safety design will be the responsibility of the Contractor. Contractor shall submit a trench safety design approved by a professional engineer to the City for review prior to the start of any underground utility construction.

PAVING

1. All embankments shall be compacted to 95% Standard Proctor density.
2. All streets and alleys shall be placed on lime stabilized sub grade with a lime content of not less than 7%. or as approved by city engineer.
3. The minimum 28 day compressive strength of concrete street paving shall not be less than 3600 psi and shall be air entrained. Water may not be applied to the surface of concrete paving to improve workability.
4. All curb and gutter shall be integral with the pavement.
5. Parabolic crowns are required on all street pavements except on major thoroughfares where straight sections are required.
6. Streets and alleys shall be constructed with provisions for sidewalk ramps at all intersections.

DRAINAGE

1. Storm sewer pipe shall be reinforced concrete, Class III unless otherwise noted.
2. All structural concrete shall be Class "C" (3600 psi compressive strength at 28 days), air entrained.
3. The contractor shall install plugs in storm sewer lines or otherwise prevent mud from entering the storm sewer system during construction.

WATER AND SANITARY SEWER

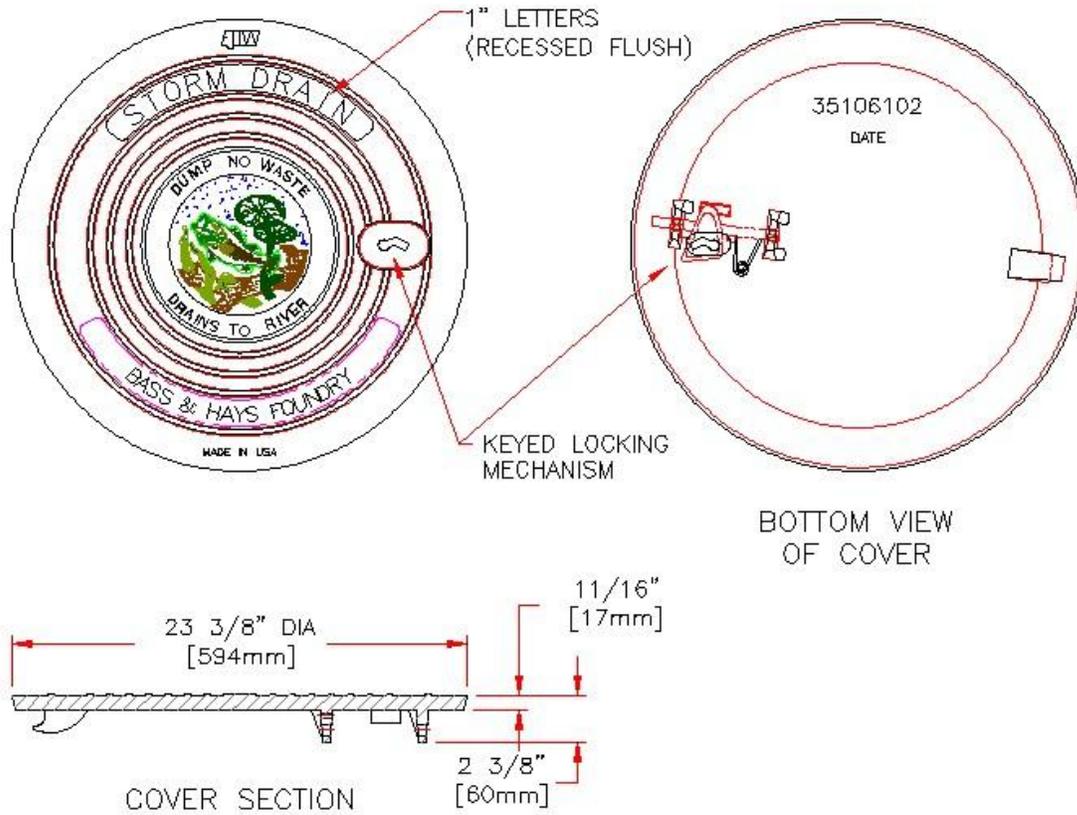
1. Water mains shall be AWWA C-900 or 905 PVC Class 200 unless otherwise noted. Minimum cover for waterlines is 48" below top of curb, 60" where no curbed street is present or as required to clear existing utilities, whichever is greater. Class B+ embedment unless otherwise noted.
2. Marking tape shall be installed one foot above and over PVC water lines.
3. Fittings for PVC water lines shall be ductile iron and be encased in a polyethylene sheath.

4. All Mechanical Joints will be restrained. (Mega-Lug etc.)
5. Valves, including tapping valves shall be resilient seat gate valves, unless noted otherwise.
6. All direct burial valves shall be provided with cast iron valve boxes with PVC stacks. Valve stacks shall be vertical and concentric with the valve stem. Stainless steel valve extensions are required on all valves where the operating nut is greater than 4 feet below finished grade.
7. Fire hydrants shall be Waterous or equal as directed or approved by the City of Celina on a case by case basis and field painted silver with bonnet and caps color-coded to pipe size.
 - a. Six inch line- silver body with RED bonnet and caps.
 - b. Eight inch line- silver body with BLUE bonnet and caps.
 - c. Ten inch line- silver body with GREEN bonnet and caps.
 - d. Twelve inch and larger- silver body with YELLOW bonnet and caps.
8. All exposed bolting on any buried equipment or material shall be stainless steel. Included are:
 - a. Bonnet and stuffing box bolts on valves.
 - b. Shoe bolts on fire hydrants.
 - c. Flange bolts.
 - d. "Cor-ten" mechanical joint "T" bolts are acceptable for direct burial service.
9. Meter boxes shall approved by the City of Celina.
10. Sanitary sewer mains shall be DR 35 PVC. Class H embedment unless otherwise noted.
 - a. The contractor shall install and maintain watertight plugs in all connections to the City's sanitary sewer system until the City accepts the project.
 - b. All sanitary sewer lines and manholes shall be leak tested before the project is accepted. Deflection testing of PVC sewer lines is required.

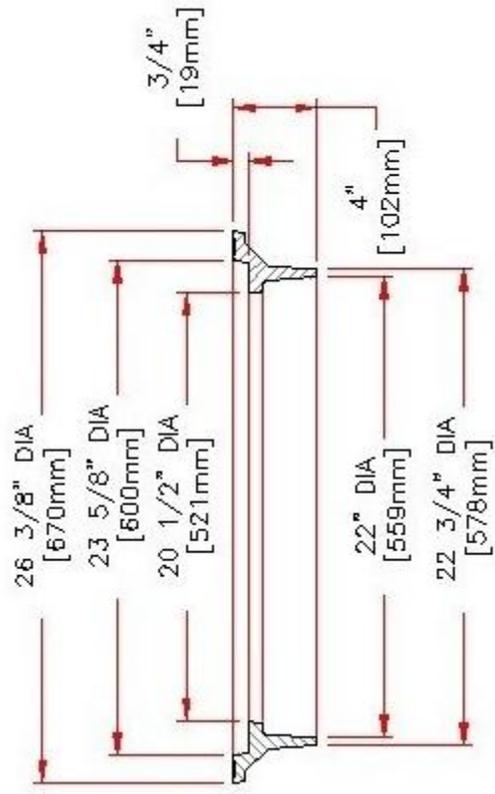
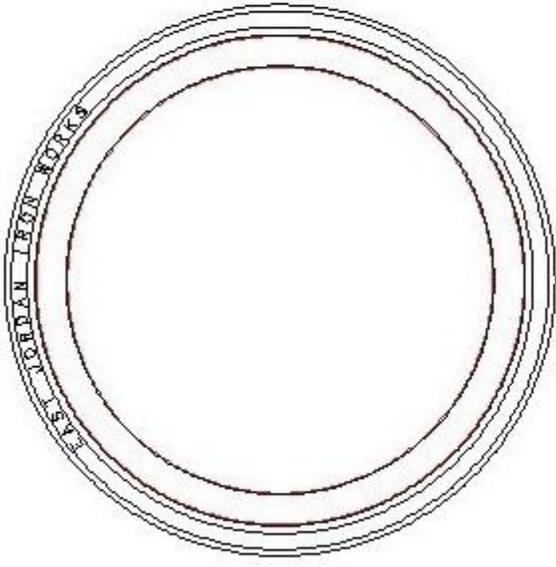
Standard Details and Specifications

Note: The following details are for illustrative purposes. An approved equal may be used in place of the items shown.

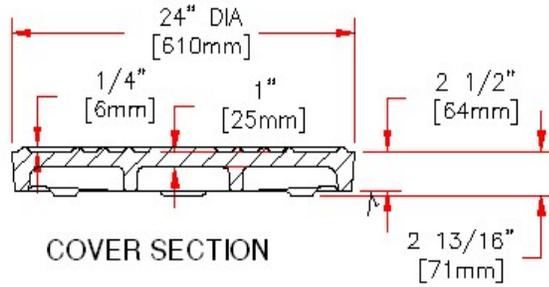
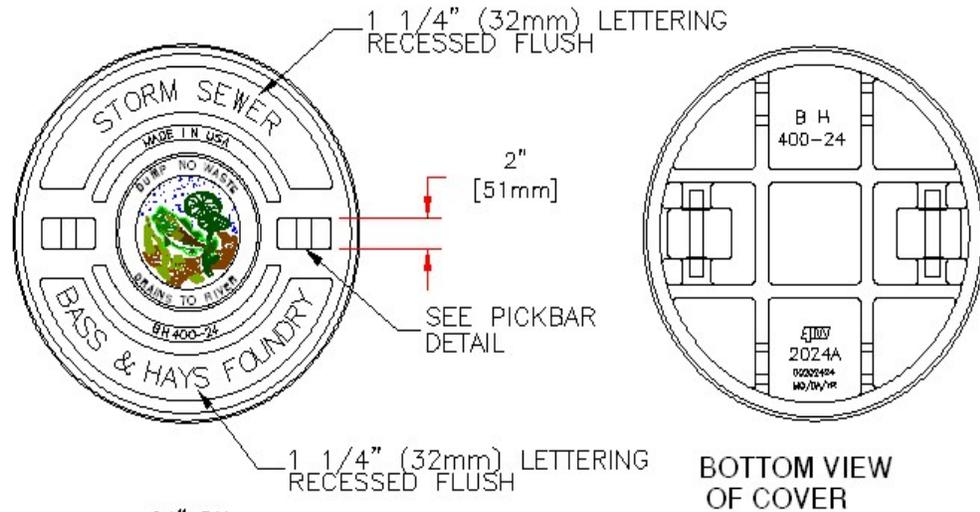
Storm Drain Ring and Cover



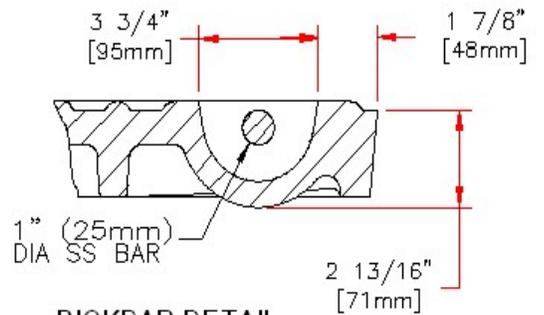
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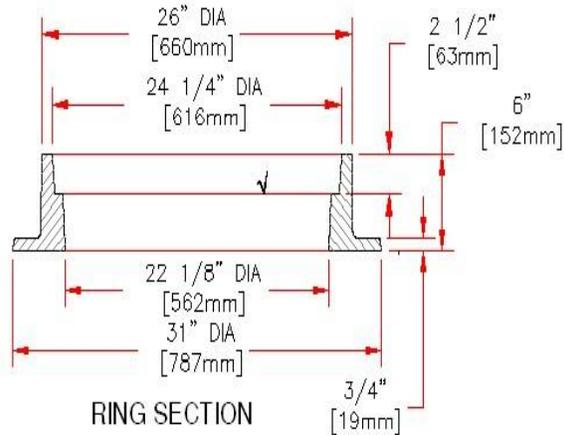
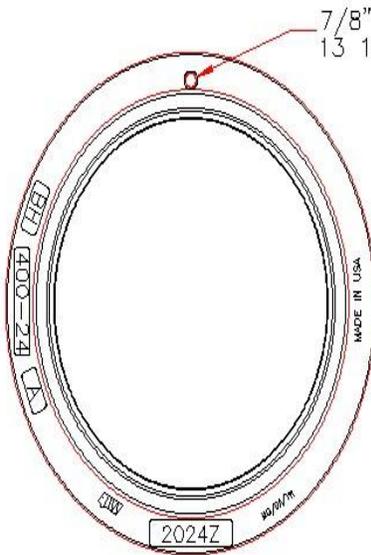
FRAME SECTION



√ MACHINED SURFACE

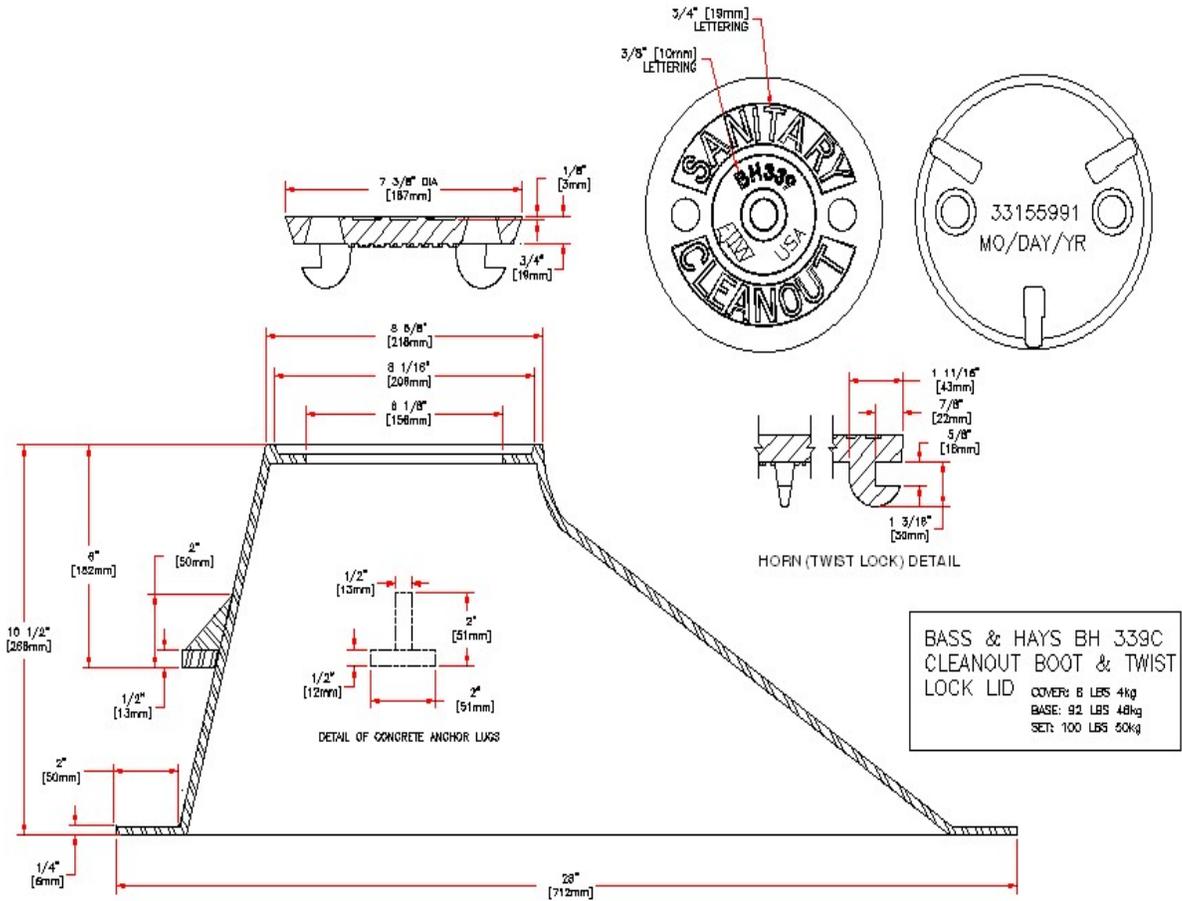


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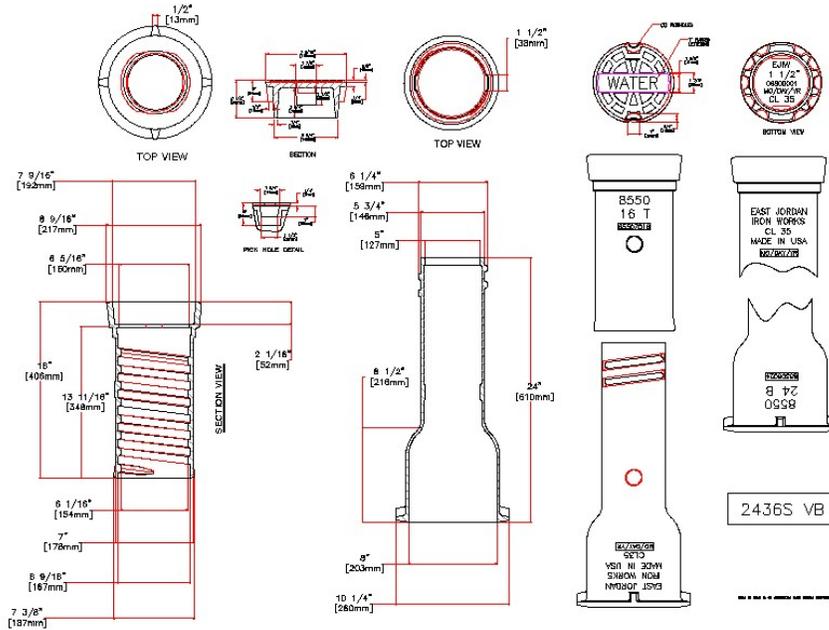


√ MACHINED SURFACE

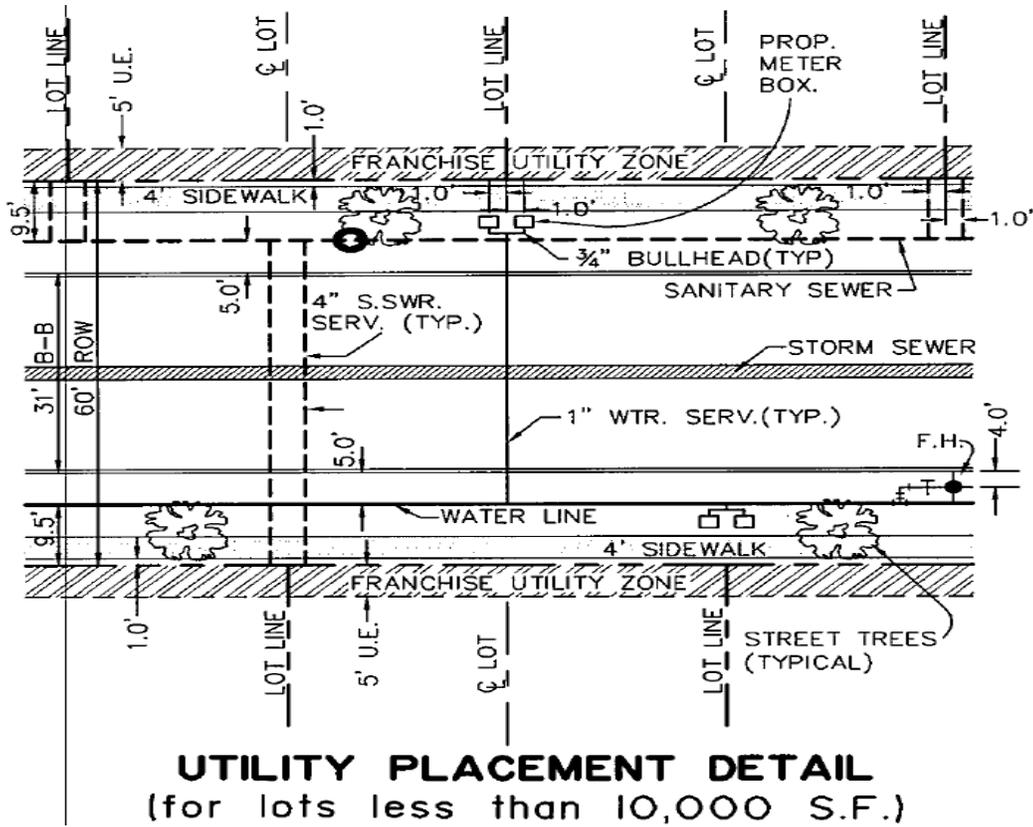
Cleanout



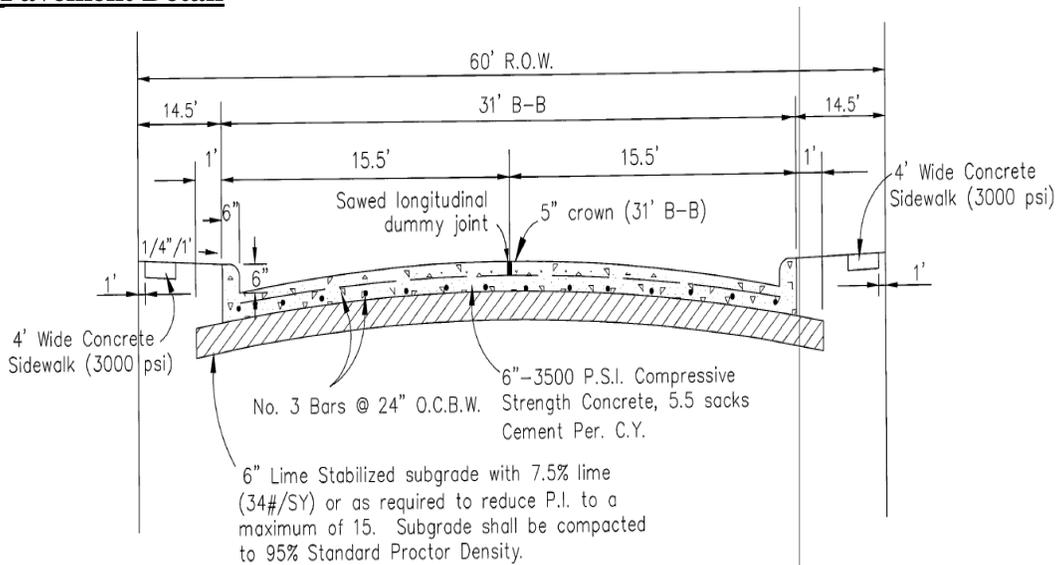
Valve box



Utility Placement Detail

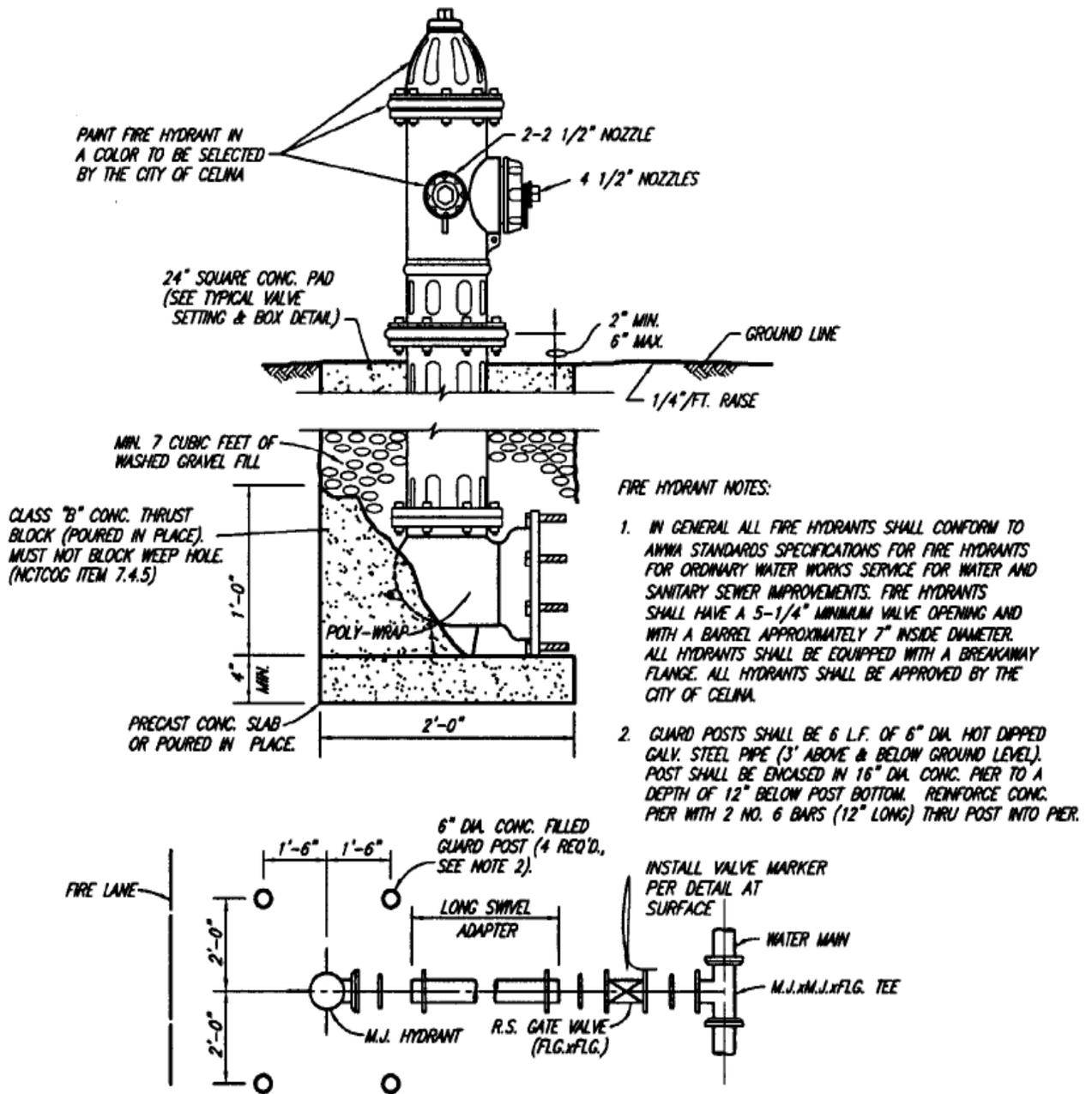


Street Pavement Detail



Fire Hydrant Installation

Note: Watrous or approved equal



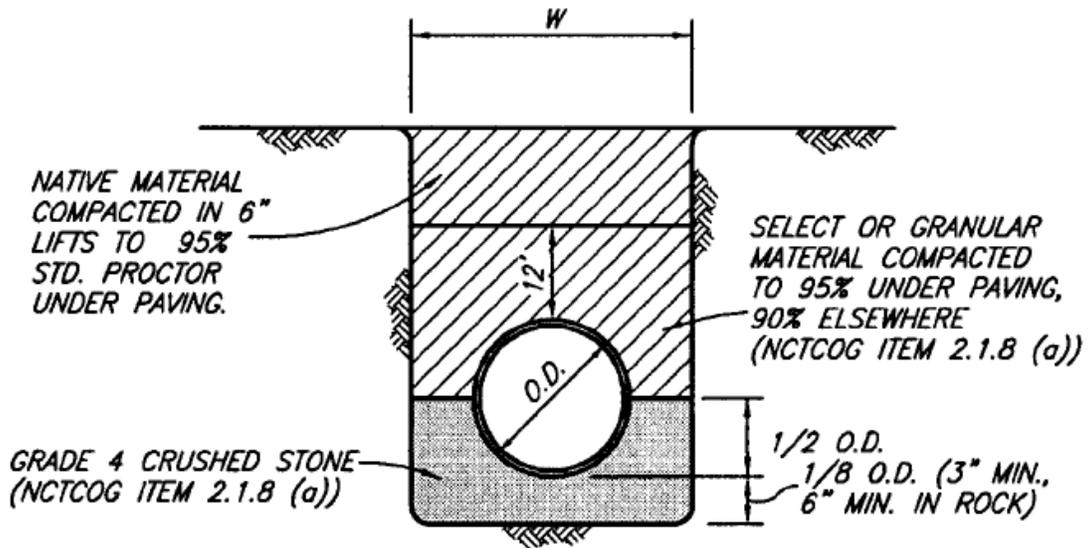
FIRE HYDRANT NOTES:

1. IN GENERAL ALL FIRE HYDRANTS SHALL CONFORM TO ANWA STANDARDS SPECIFICATIONS FOR FIRE HYDRANTS FOR ORDINARY WATER WORKS SERVICE FOR WATER AND SANITARY SEWER IMPROVEMENTS. FIRE HYDRANTS SHALL HAVE A 5-1/4" MINIMUM VALVE OPENING AND WITH A BARREL APPROXIMATELY 7" INSIDE DIAMETER. ALL HYDRANTS SHALL BE EQUIPPED WITH A BREAKAWAY FLANGE. ALL HYDRANTS SHALL BE APPROVED BY THE CITY OF CELINA.
2. GUARD POSTS SHALL BE 6' L.F. OF 6" DIA. HOT DIPPED GALV. STEEL PIPE (3' ABOVE & BELOW GROUND LEVEL). POST SHALL BE ENCASED IN 16" DIA. CONC. PIER TO A DEPTH OF 12" BELOW POST BOTTOM. REINFORCE CONC. PIER WITH 2 NO. 6 BARS (12" LONG) THRU POST INTO PIER.

TYPICAL FIRE HYDRANT INSTALLATION

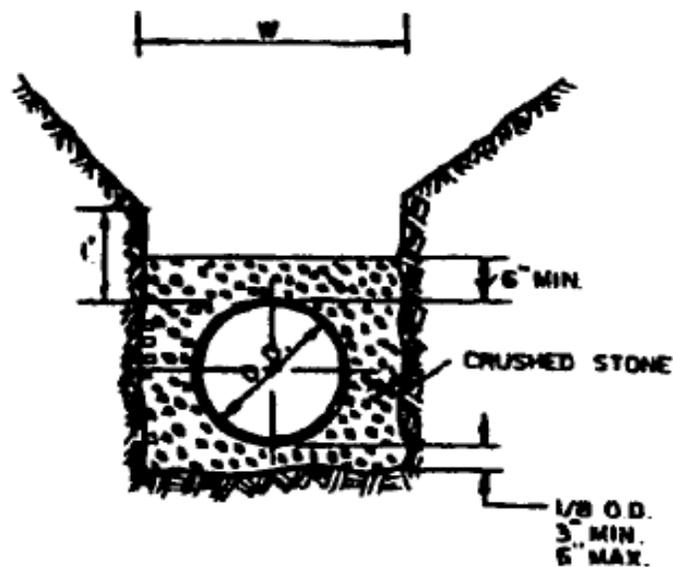
NO SCALE

Embedment



CLASS B+ EMBEDMENT

STD PVC WATER OR D.I.P.

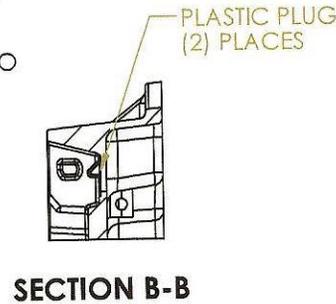
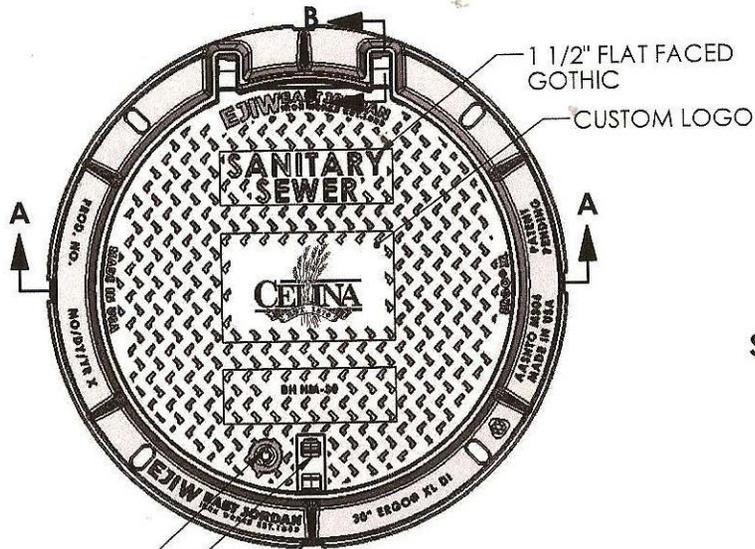


CLASS H EMBEDMENT

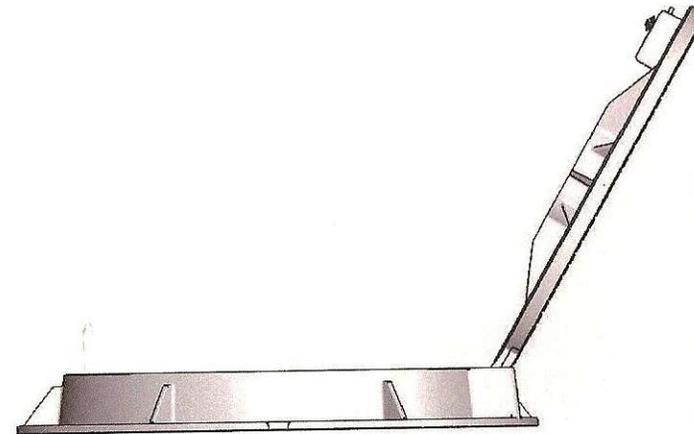
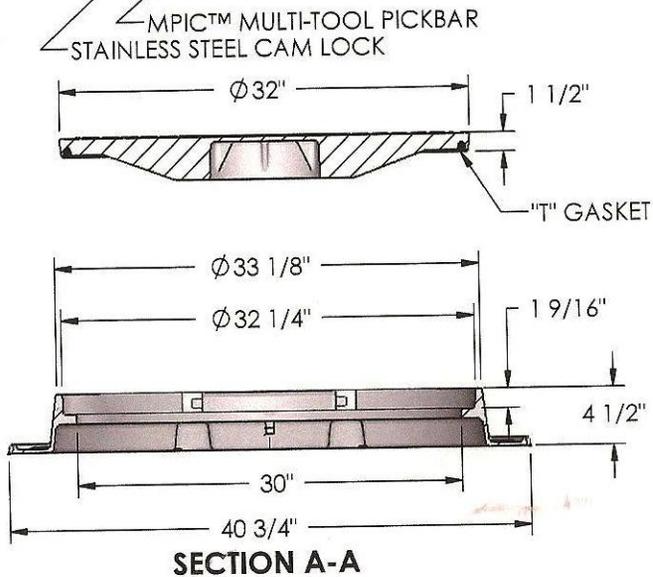
P.V.C. PIPE ONLY

STD P.V.C. SEWER INSTALLATION
STD. P.V.C., R.C.C.P. & DUCTILE WATER
INSTALLATION.

ERGO XL Assembly



SAFETY LOCK & REMOVAL POSITION AT 90°



Product Number

00148038L01

Design Features

- Materials
- Cover
 Ductile Iron (80-55-06)
- Frame
 Ductile Iron (80-55-06)

- Design Load
 Heavy Duty
- Open Area
 n/a
- Coating
 Undipped
- ✓ Designates Machined Surface
- Slip Resistant Surface
 with the LLLL® registered trademark

Certification

- ASTM A536
-
- Country of Origin: USA

Major Components

LC00148038
LF300454075

Drawing Revision

6/18/2012 Designer: SDC
6/25/2012 Revised By: SDC

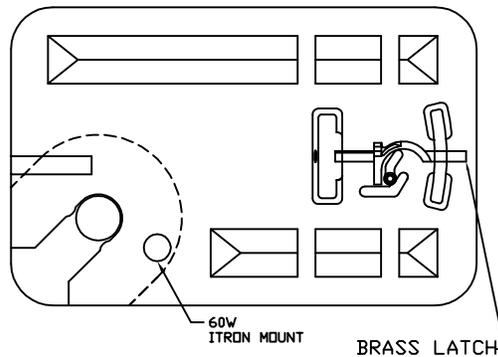
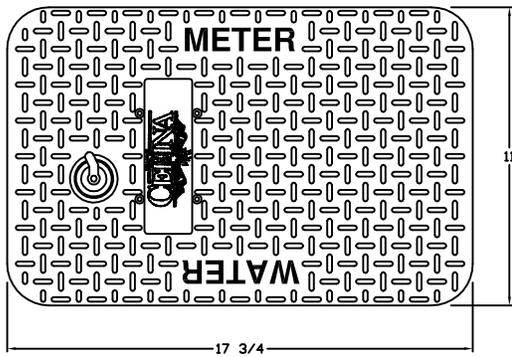
Disclaimer

Weights (lbs/kg), dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

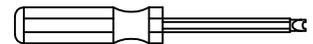
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Contact

800.626.4653
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DFW-S-BOLT



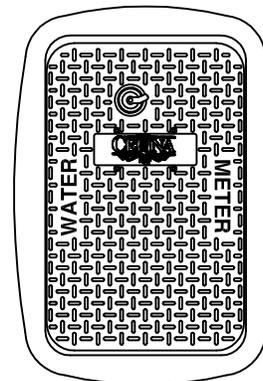
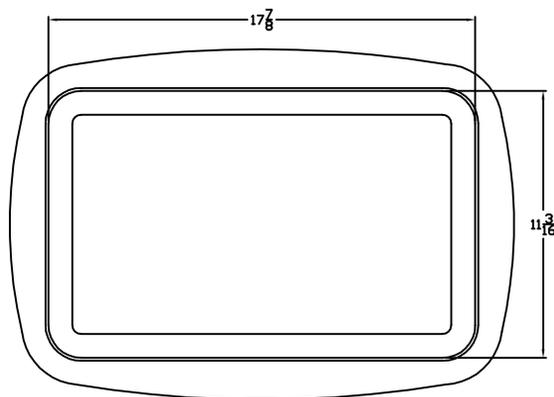
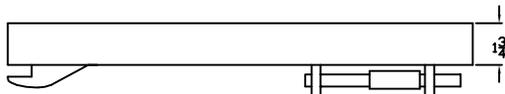
DFW-S-DRIVER



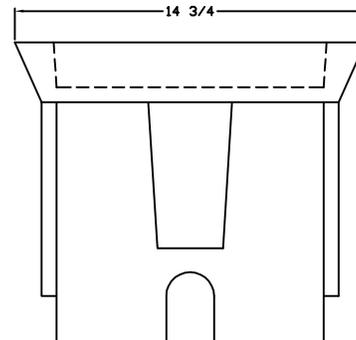
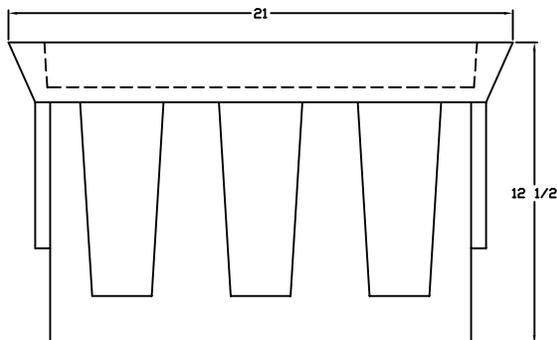
DFW-S-BOLT INSTALLED

OPTIONAL SECURITY HARDWARE

DFW37C-SKSBSM-LID



DFW37C-SKSBSM



DFW37C BODY ONLY

NOTES

- 1) DIM'S ± 1/8 U.N.O.
- 2) SNAP LOCK POCKET WILL RECEIVE I-TRON ERT. SNAP LOCK SLOT IS 1.80" ± .015" TO ALLOW FOR A FINGER FORCE INSTALL. POCKET HEIGHT IS 15/16 FOR MIN 1/8" AIR GAP.
- 3) IF TOUCH PAD IS REQ'D USE A HAMMER AND HIT THE KNOCK OUT SLUG TO MAKE 1 7/8" ∅



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www.dfwplasticsinc.com

CITY OF CELINA

DFW 37C-SKSBSM
SINGLE 3/4" OR 1" PLASTIC WATER METER BOX

FILE NAME:
CITY OF CELINA -
DFW37C-SKSBSM.dwg

UPDATED: 01/28/08

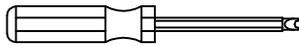
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OPTIONAL SECURITY HARDWARE



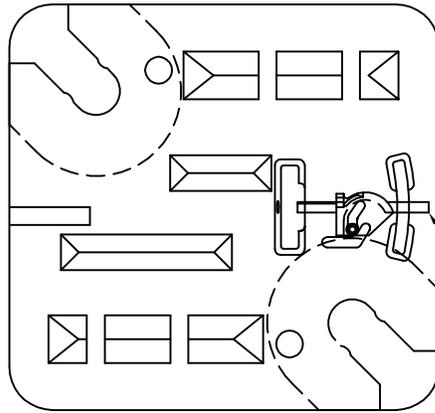
DFW-S-BOLT



DFW-S-DRIVER

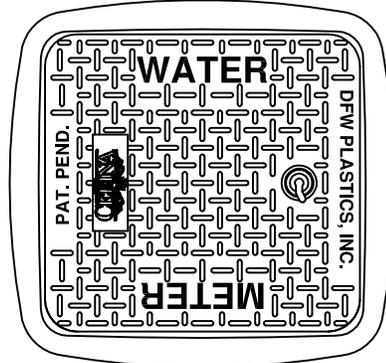
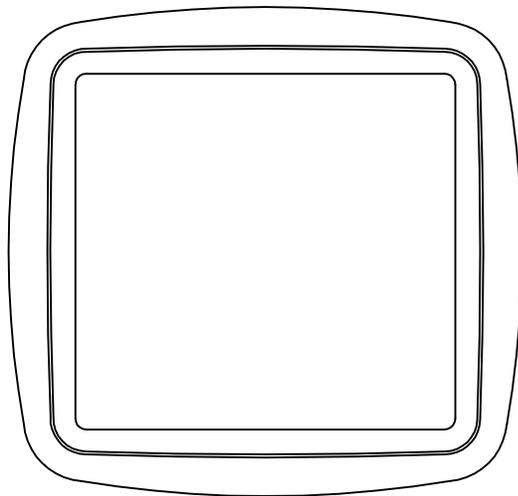
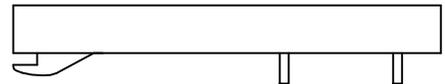
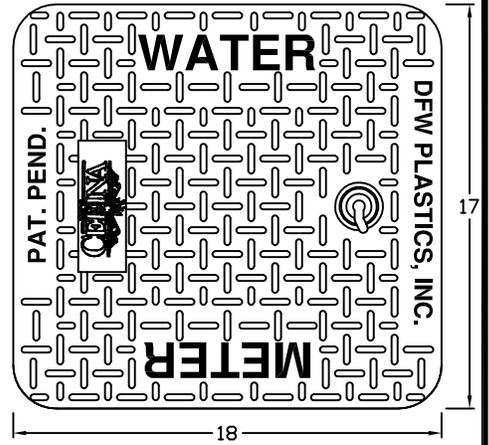


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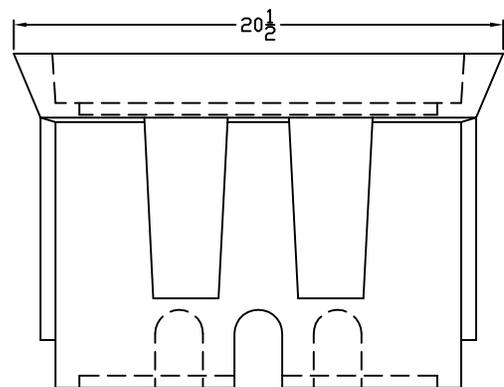
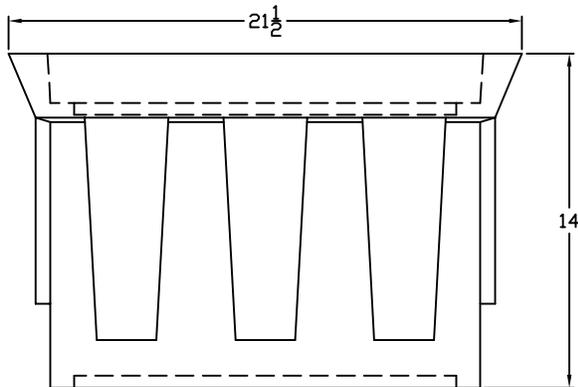


SECURITY BRASS LATCH

DFW38C-SKSBSM-LID



DFW38C-14-SKSBSM



DFW38C-14 BODY

NOTES

- 1) DIM'S ± 1/8 U.N.O.
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DFW PLASTICS, INC.
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CITY OF CELINA

DFW38C-14-SKSBSM

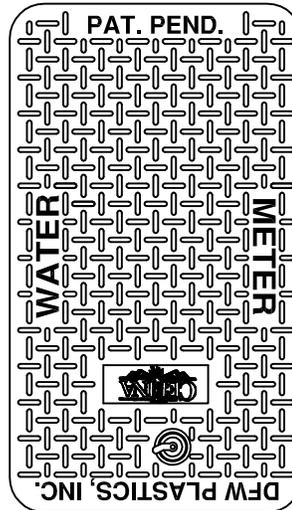
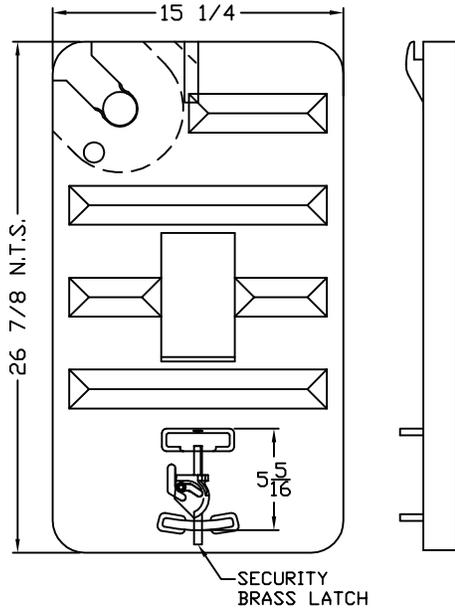
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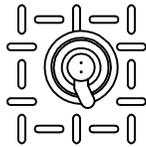
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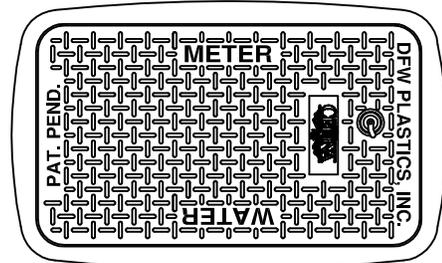
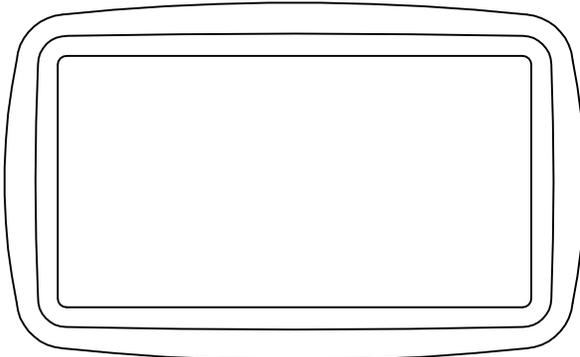


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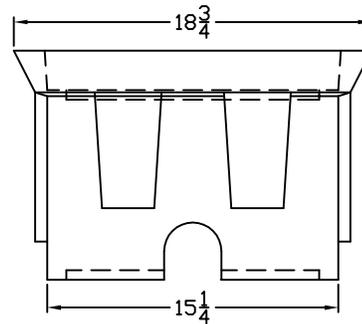
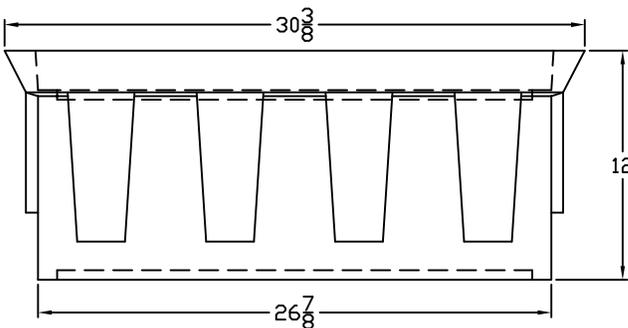


DFW-S-DRIVER

OPTIONAL SECURITY HARDWARE



DFW65C-SKSBSM



NOTES

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DFW65C BODY ONLY



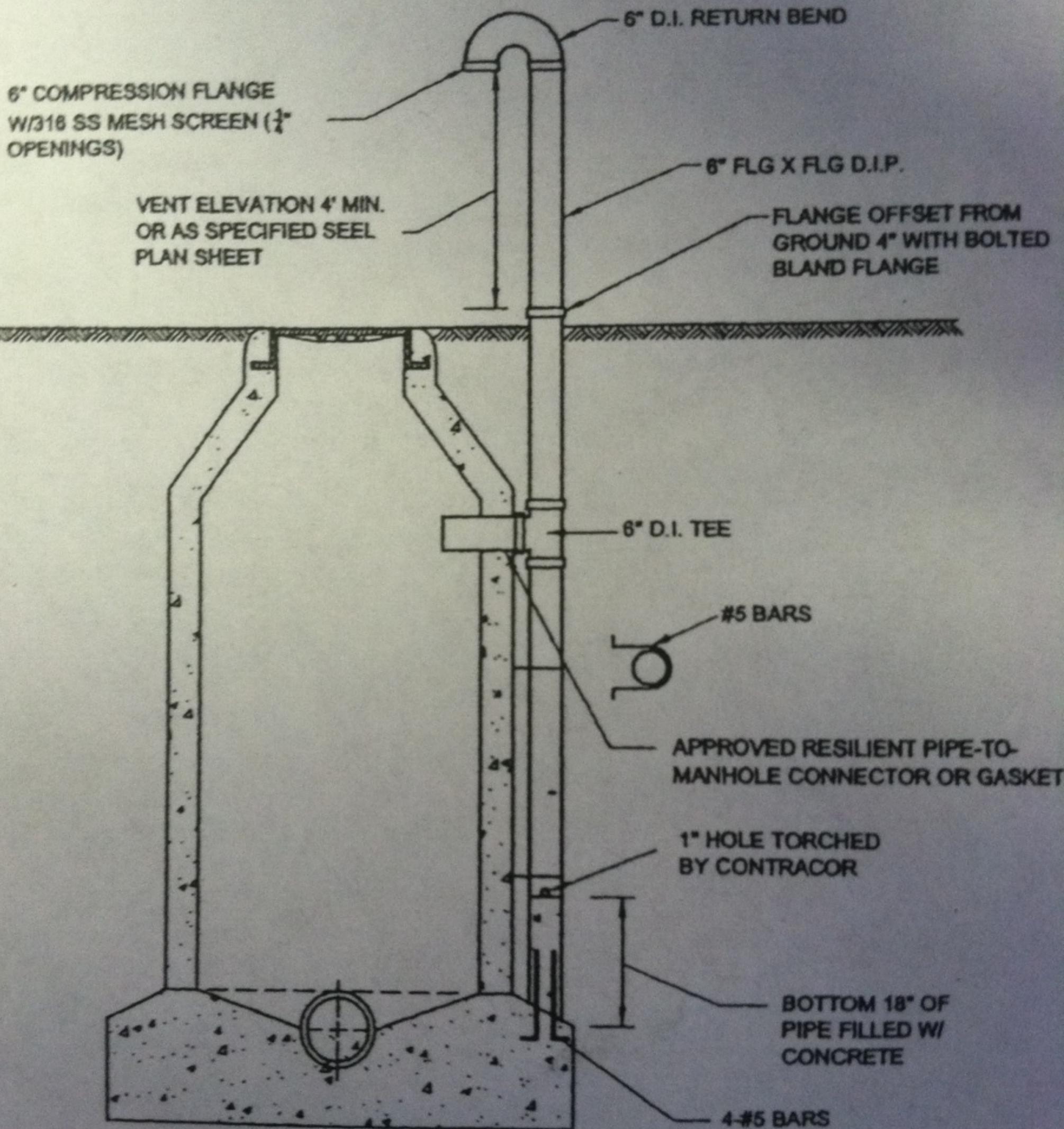
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CITY OF CELINA

DFW65C-SKSBSM

FILE NAME: CITY OF CELINA DFW65C-12-SKSBSM.DWG
UPDATED: 01/28/08
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PLOT SCALE: 1:10

SANITARY SEWER MAN



VENTED MANHOLE DETAIL