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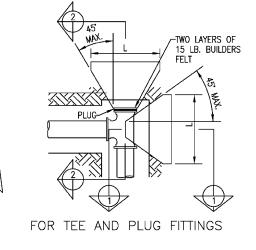
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REVISIONS

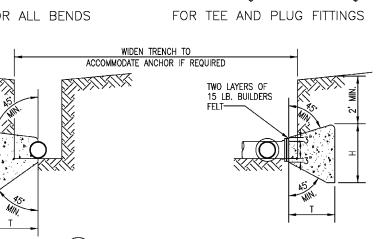
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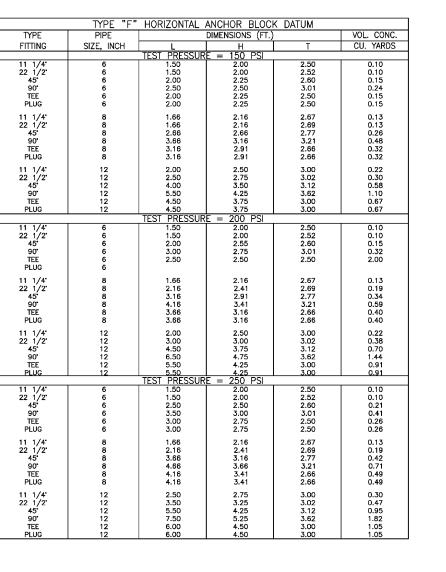
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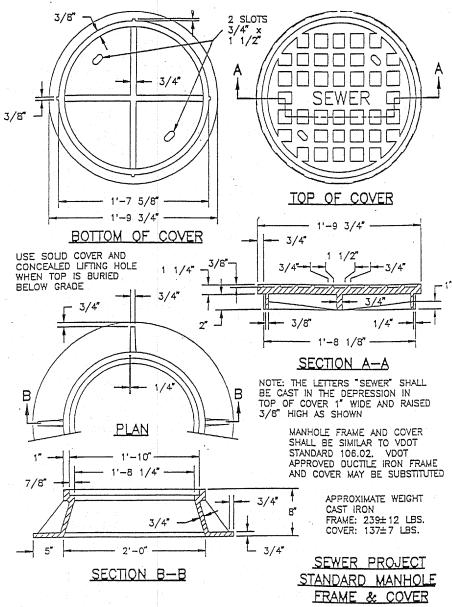


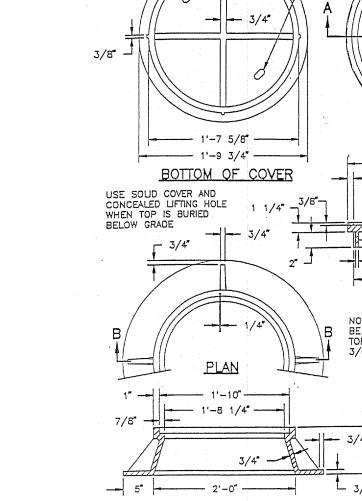
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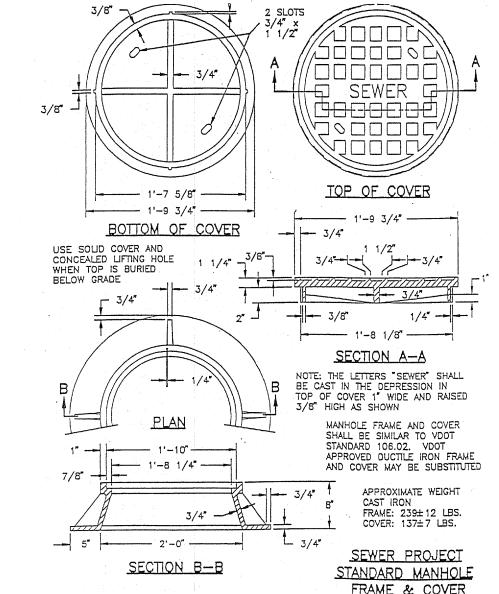


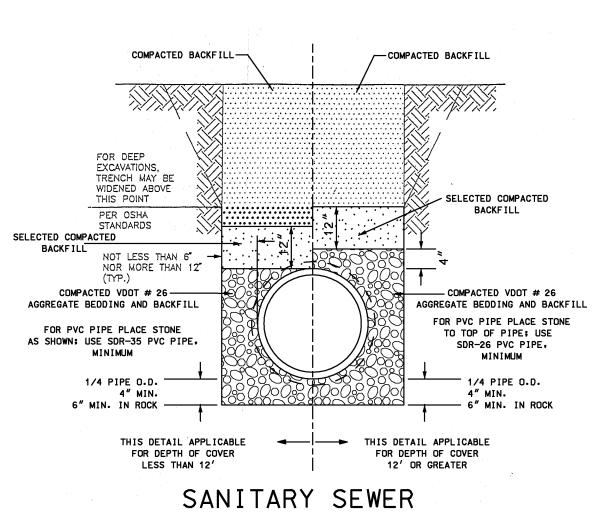


CONCRETE ANCHOR DETAIL

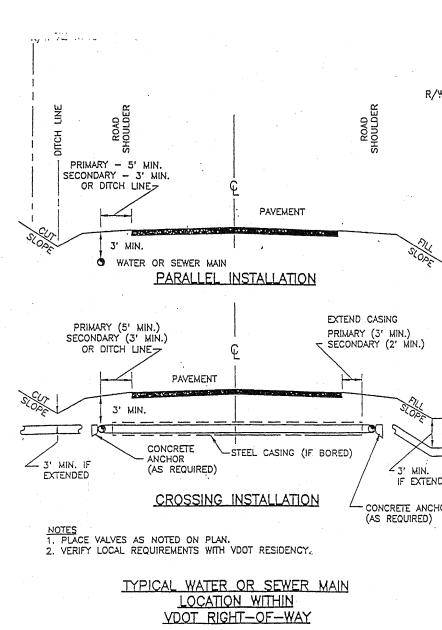




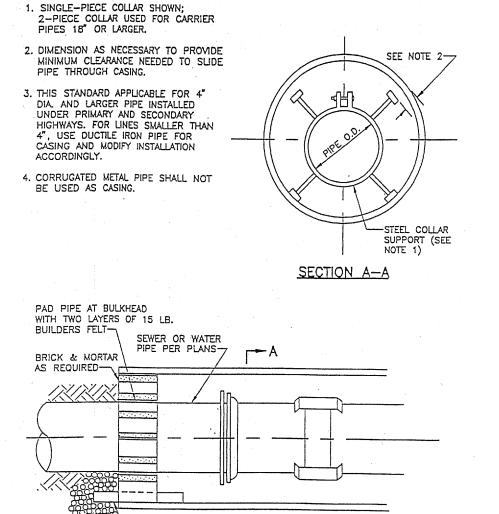








ROAD CROSSING DETAIL NTS



CASING PIPE DETAIL NTS

SEALED CASING

2 PVC DRAIN (LOWER END ONLY)

GENERAL CONSTRUCTION NOTES:

b. Parallel Installation

c. Crossing

General Contractor shall contact Miss. Utilities at 1-800-552-7001 or 811 at least 48

Contractor shall field verify existing water lines and sanitary sewer location and depth

prior to construction and make adjustments in the proposed utilities as necessary.

Separation of water lines and sanitary and/or combined sewers or sewer force mains, as used below, the work "sewer" is intended to also include sewer force mains.

a. Follow State Health Department standards for separation of water mains and

1. Normal conditions - water lines shall be constructed at least 10 feet

2. Unusual conditions - when local conditions prevent a horizontal separation of at least 10 feet, the water line may be laid closer to a sewer

a. The bottom of the water line is at least 18 inches above the top of the

b. Where this vertical separation cannot be obtained, the sewer shall be

Normal conditions - water lines crossing over sewers shall be laid to

Unusual conditions – when local conditions prevent a vertical separation

provide a separation of at least 18 inches between the bottom of the water

described in crossing, normal conditions, paragraph above, the following

b. Water lines passing under sewers shall, in addition, be protected by

of the sewer and the top of the water line.

Sewers passing over or under water lines shall be constructed of the materials described in parallel installation, unusual conditions -

Vertical separation of at least 18 inches between the bottom

excessive deflection of the joints and settling on and

That the length of the water line be centered at the point of

the crossing so that joints shall be equidistant and as far as

2. Adequate structural support for the sewers to prevent

shall be watertight construction and tested in place.

line and the top of the sewer whenever possible.

breaking water line.

possible from the sewer.

Water lines (raw and finished) shall be constructed a minimum of 30 feet from septic

Concrete for reaction anchors shall have 3,500 psi strength at 28 days and shall meet

requirements of ASTM C94. Concrete reaction anchors shall bear against undisturbed

earth. Anchors shall be of the size and shape indicated on the drawings. Contractor shall

provide reaction anchors at all changes in direction and at all dead ends of pressure

The Contractor is responsible for obtaining a copy of the latest edition of the Franklin County "Standard Specifications for Water and Sewer Systems" (Chapter 22). A copy of

Pipe laying - exercise care to keep foreign material and dirt from entering pipe during

storage, handling and placing in trench. Close ends of in-place pipe at the end of any

work period to preclude the entry of animals and foreign material. Do not lay pipe when

trench bottom is muddy or frozen, or has standing water. Refer to waterline trench detail.

Sewer force mains shall be cased beneath any roadway. Refer to Franklin County details

included in Chapter 22 of Franklin County Standard "Specifications for Water and Sewer

Systems". Installation method for casings shall be bore and jack, unless otherwise

The owner or contractor shall notify the engineer at least twenty-four (24) hours prior to the commencement of acceptance testing. Tests shall be made on all sections of pipe

throughout the entire project and shall be conducted only in the presence of the engineer or its authorized agent. Tests shall be made between adjacent valves. Care shall be taken

to ensure that the entire test run of pipe is securely braced and blocked against thrust when the pressure is applied. All thrust blocks must be completely set, and all pipe must

be firmly supported and weighted down by partial backfill soil on top.

Construction of all utility lines and appurtenances shall be as per the latest edition

the specifications must be kept on site at all times during construction.

construction shall be used.

providing:

4.1 Separation of water lines and septic systems

pipelines and as shown on the drawings.

tanks and drainfields.

8. Pipe Encasement

9. Acceptance Tests

paragraph 2 above.

constructed of AWWA approved water pipe pressure-tested in place

to 50 psi without leakage prior to backfilling. The sewer manhole

horizontally from a sewer or sewer manhole whenever possible. The

2. Contractor shall locate all existing utilities within the construction limits of the

hours prior to initiating any construction activity on this project.

Contact the Project Engineer before making any adjustment.

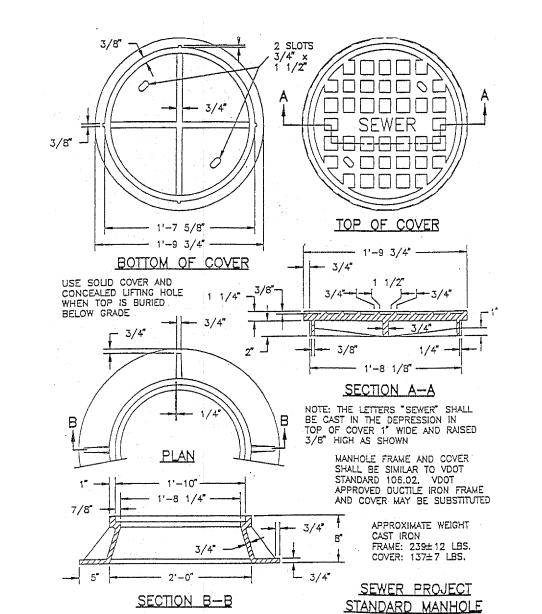
distance shall be measured edge-to-edge.

or sewer manhole provided that:

project prior to commencement of construction.

NOTE: THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF THE LATEST EDITION OF THE FRANKLIN COUNTY "STANDARD SPECIFICATIONS FOR WATER AND SEWER SYSTEMS" (CHAPTER 22). A COPY OF THE SPECIFICATIONS MUST BE KEPT ON SITE AT ALL TIMES DURING CONSTRUCTION.

CONSTRUCTION OF ALL UTILITY LINES AND APPURTENANCES SHALL BE AS PER THE LATEST EDITION OF CHAPTER 22.



MANHOLE FRAME & COVER DETAIL NTS

FRAME & COVER

TRENCH DETAIL FOR PVC PIPE

> IF EXTENDED CONCRETE ANCHOR

M:*Projects-BHA*030066*dgn*RWS*SEWER*WLS GRAVITY SEWER & FORCE MAIN*SHEET 16 MISC. DETAILS.dgn - Default

STANDARD MANHOLE DETAIL

NTS

WARNING TAPE AT 6"-12" FOR PYC PIPE-

THIS DETAIL APPLICABLE

IN DEEPER TRENCHES.

FORCE MAIN

TRENCH DETAIL

NTS

THIS DETAIL APPLICABLE FOR USE

OF DUCTILE IRON PIPE, CLASS 50

FOR ANY DEPTH ON THIS PROJECT

SANITARY SEWER

DUCTILE IRON PIPE

NTS

TRENCH DETAIL FOR

- STANDARD MANHOLE FRAME AND COVER (NOT INCLUDED)

NOTE: MATERIALS AND FABRICATION IN ACCORDANCE
WITH ASTM C478. CONE SHALL BE OF THE ECCENTRIC TYPE.
CONNECT PIPE TO SECTION WITH APPROVED FLEXIBLE
WATER—TIGHT SLEEVE OR GASKET (INTERPACE OR EQUAL).
THE FLEXIBLE WATER—TIGHT SLEEVE OR GASKET SHALL BE
INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
SAN

- COMPACTED BACKFILL

- SELECTED COMPACTED

FOR DUCTILE IRON

1/4 PIPE O.D.

ALT. TOP FOR SHALLOW MANHOLES (FLATTOP)

- SEAL ÜNDER CASTING AND ALL JOINTS WITH

BUTYL RUBBER ROPE SEALER, AASHTO M-19:

STEPS SHALL HAVE CONTINUOUS ALIGNMENT BETWEEN SECTIONS

- SLEEVE OR GASKET

- BENCH FROM CROWN OF PIPE TO WALL & 2"-4"/FT. SLOPE

2500# CONCRETE

VDOT #25 OR #26

4" MIN. 6" MIN. IN ROCK

PIPE , PLACE AS SHOWN

FOR DEPTHS LESS THAN 14 FEET.

SEE PLANS FOR MODIFICATIONS

NOT LESS THAN 6"

NOR MORE THAN 12 (TYP.)

SELECTED COMPACTED -BACKFILL

BEDÖING -WHERE

REQUIRED (SEE SPECS)

COMPACTED VDOT #1

OR #26 AGGREGATE

FOR DEEP

EXCAVATIONS,

STANDARDS

TRENCH MAY BE WIDENED ABOVE

NOT LESS THAN 6" NOR MORE THAN 12" (TYP.)

COMPACTED VDOT #26 AGGREGATE

COMPACTED BACKFILL

36" MIN. COVER

OR AS SPECIFIED

FOR PVC PIPE, PLACE

STONE TO PIPE SPRINGLIN

6" MIN. IN ROCK

HORIZ: AS SHOWN VERT: AS SHOWN

030066 SHEET NO. 16 OF 19