THIS RECORD DOCUMENT HAS BEEN PREPARED BASED ON NFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR. SRW ENGINEERS, INC. HAS ATTEMPTED TO VERIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION BUT SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT. engineering | architecture | geospatial NGINEER/ARCHITECT: ALEX L. WHITE CONSTRUCTION COMPANY: ENGINEERED FLUID, INC. ATE: FEBRUARY 2014

DRAWING SCALE CHECK: THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED HOOSIER HILLS REGIONAL WATER DISTRICT DIV. G-3 - P.S. & TELEMETRY IMPROVEMENTS

ALL RIGHTS RESERVED:

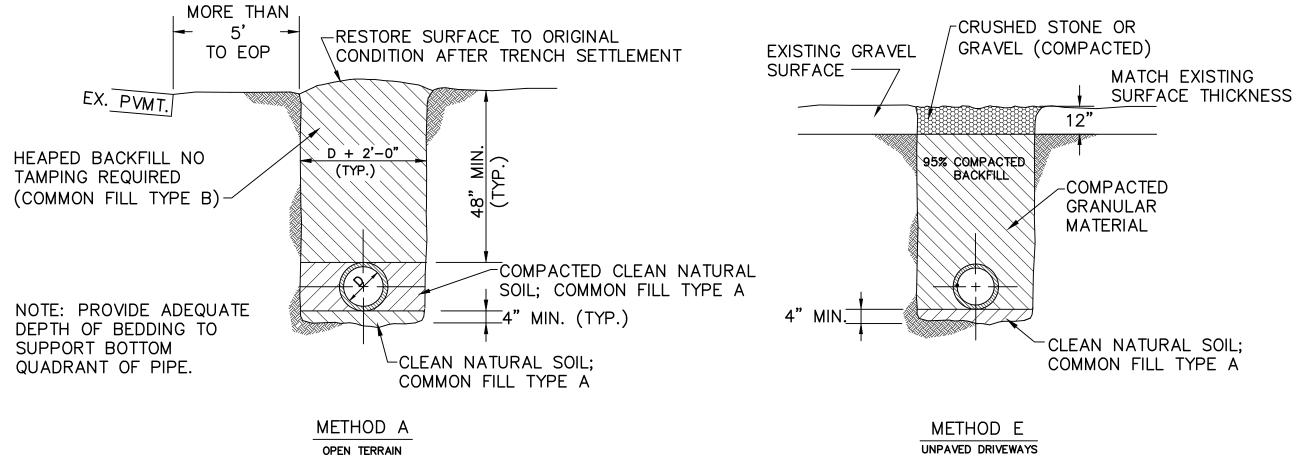
THIS DOCUMENT IS THE PROPERTY OF GRW, INC. AND SHALL NOT BE REPRODUCED IN WHOLE OR IN PART OR USED FOR CONSTRUCTION OF OTHER THAN THIS SPECIFIC PROJECT WITHOUT WRITTEN PERMISSION OF GRW, INC. DATE: MARCH This document, ALW 2012 originally issued, sealed, and signed by DRAWN: Alex L. White, Indiana GCR N.T.S. Professional Engineer, REVIEWED: SHEET NO. No. 11100292, on engineering | architecture | geospatial | AS-BUILTS 2/14 CJF March 26, 2012 , DRC WD-

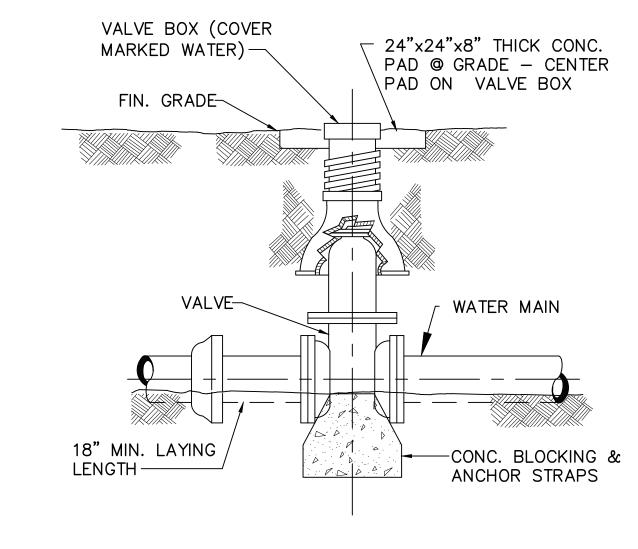
STANDARD DETAILS GRW PROJECT NO. 3235 CLIENT CONTRACT NO. G-3

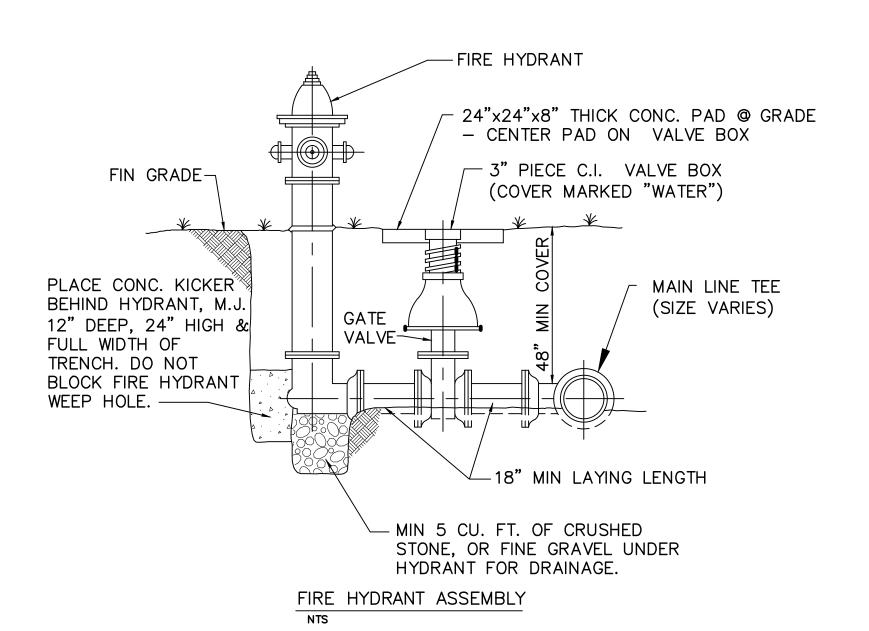
DESCRIPTION

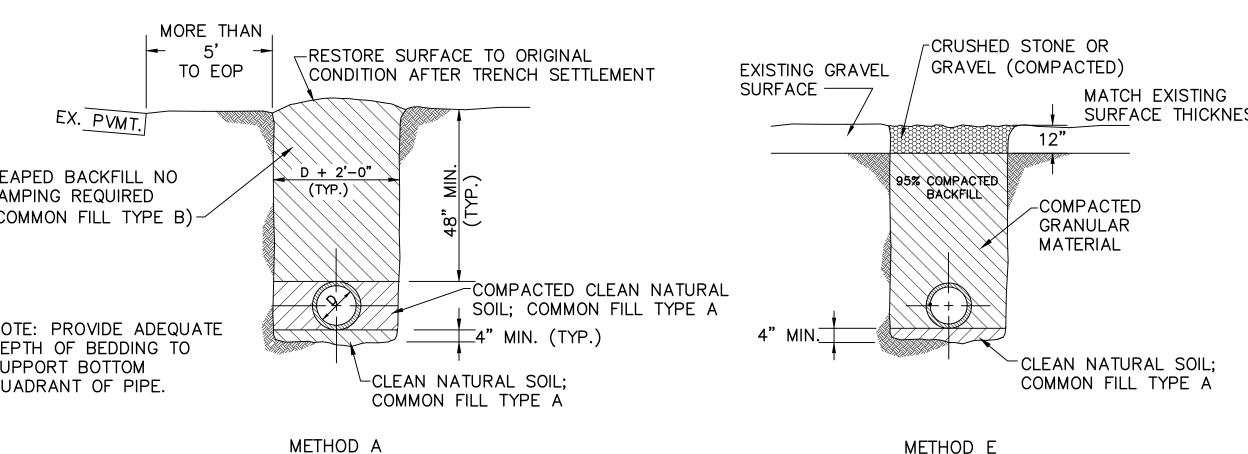
REVISIONS

BEDDING / BACKFILL / PAVEMENT REPLACEMENT DETAILS









NOTES:

CLASS "C" CONC-

1. DEPTH "D" MAY BE GREATER THAN SPECIFIED TO ALLOW WORKING SPACE. BLOCKING MUST

SIDE OF

TRENCH

SIDE OF TRENCH

PLACE 16 GA

SHEET METAL

PLUG —

TRENCH

CONCRETE THRUST BLOCKS

PLATE BEHIND

TYPICAL BLOCKING SECTION

SIDE OF TRENCH

**PLUGS** 

- SEE BACKFILL DETAIL

∠CLASS "C" CONC

—CONC. OR SOLID

CONC BLOCK

THIS SHEET

BE PLACED AGAINST UNDISTURBED EARTH.

111/4° THRU 90° BENDS

TEE

**PLUGS** 

| SIZE | 4" | 6" | 8" | 12" | 16" | 18" | 20" | 24"

11 1/4°, 22 1/2° & 45° BENDS

90° BENDS

| SIZE | 4" | 6" | 8" | 12" | 16" | 18" | 20" | 24"

W | 12" | 12" | 16" | 24" | 28" | 34" | 40" | 44"

**TEES** 

SIZE 4" 6" 8" 12" 16" 18" 20" 24"

VERTICAL BEND & STRAIGHT PIPE

| SIZE | 4" | 6" | 8" | 12" | 16" | 18" | 20" | 24"

SIZE 4" 6" 8" 12" 16" 18" 20" 24"

| 16"| 18"| 18"| 24"| 24"| 30"| 30"| 30"| 16" 18" 22" 30" 48" 48" 48" 48"

10" 12" 12" 12" 12" 12" 18" 24" 24"

| 16" | 18" | 22" | 24" | 30" | 30" | 48" | 48"

6" | 6" | 6" | 6" | 6" | 8" | 16" | 16"

| 12"| 14"| 16" | 20"| 34"| 40"| 45"| 52"|

| 12" | 14" | 14" | 16" | 28" | 33" | 37" | 46"

10" 12" 14" 18" 22" 25" 28" 32"

8" | 8" | 10" | 12" | 12" | 16" | 20" | 20"

20" 24" 27" 34" 48" 51" 54" 70"

10" 16" 18" 22" 36" 40" 44" 50"

8" | 8" | 12" | 12" | 12" | 16" | 38" | 38"

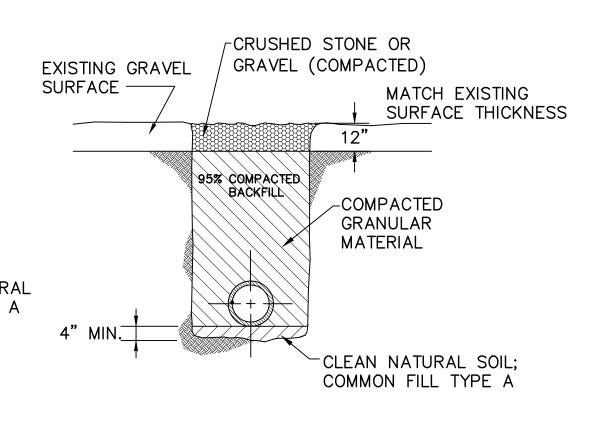
10" 18" 24" 27" 28" 30" 48" 48"

16" 12" 18" 24" 28" 34" 48" 48"

| 12" | 12" | 15" | 18" | 20" | 22" | 24" | 24"

12" 15" 15" 18" 21" 21" 24" 24"

18" 24" 24" 30" 36" 36" 36" 42"



TYPICAL WATER VALVE SETTING NTS



HEAPED BACKFILL NO

(COMMON FILL TYPE B)

CRUSHED STONE

OR FINE GRAVEL

BACKFILL ---

TAMPING REQUIRED

www.grwinc.com

— PVC SDR 35 PIPE

LARGER DIA. THAN

REPLACED FIELD TILE.

FIELD TILE

-WATER LINE

shall not be used in

lieu of a certified

document.

DATE BY

APPROVED: