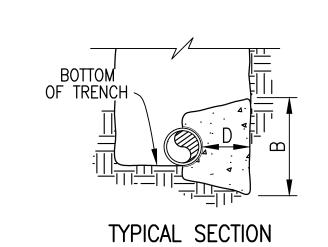


- 1. THRUST BLOCKS DESIGNED FOR 200 PSI PRESSURE AND 2000 PSF SOIL BEARING. FOR GREATER PRESSURE OR LESS SOIL BEARING, QUANTITIES WILL HAVE TO BE RECALCULATED.
- 2. THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
- 3. IF EXACT SIZE PIPE BLOCKING IS NOT SHOWN, USE NEXT LARGER SIZE.
- 4. THRUST BLOCKING TO BE POURED IN PLACE CLASS C CONC.



| 30 | 12 | 12 | 12 | 12 | 12 | 12 30 | 26 | 21 | 14 | 21 | 13 | 13

NOT TO SCALE

FOR CORRECT PLACEMENT.

EARTH

HEAP OVER OR

- BACKFILL MAT'L AS SPECIFIED

- COMPACTED SELECT

BACKFILL - FREE

OF ROCKS

■ EARTH EXCAVATION

→ ROCK EXCAVATION

2'-0" PLUS

PIPE DIAMETER

MAXIMUM

METHOD "A'

(IN OPEN TERRAIN)

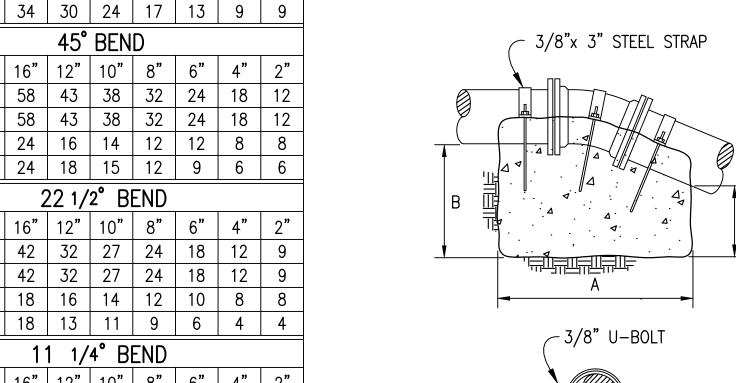
LEVEL AS DIRECTED

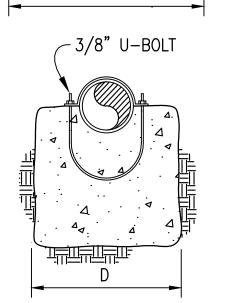
(1) SEE SPECIFICATIONS FOR DEPTH REQUIREMENT OF PIPE. ②LOCATOR WIRE, IF REQUIRED. SEE "DETECTABLE WIRE DETAIL"

- TEMPORARY BACKFILL OF CRUSHED

OF ROCKS

THRUST BLOCKING DETAIL





90° BEND							
SIZE	16"	12"	10"	8"	6"	4"	2"
Α	85	67	60	54	42	34	30
В	85	67	60	54	42	34	18
С	80	63	56	50	38	30	16
D	76	66	60	48	48	36	24
45° BEND							
SIZE	16"	12"	10"	8"	6"	4"	2"
Α	72	60	50	46	35	30	24
В	72	60	50	46	35	28	24
С	68	56	46	42	30	24	18
D	72	60	60	48	48	36	24
22 1/2° BEND							
SIZE	16"	12"	10"	8"	6"	4"	2"
Α	58	50	42	38	30	24	18
В	58	48	42	38	30	24	18
С	54	44	38	34	26	20	14
D	60	48	48	36	36	30	24
11 1/4° BEND							
SIZE	16"	12"	10"	8"	6"	4"	2"
Α	42	36	30	29	24	20	18
В	42	36	30	29	24	20	18
С	38	32	26	24	20	16	14
D	60	48	48	36	30	24	24
DIMENSIONS ARE IN INCHES							

- 1. THRUST BLOCKS DESIGNED FOR 150 PSI PRESSURE. FOR GREATER
- PRESSURE QUANITIES WILL HAVE TO BE RECALCULATED.
- 2. THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
- 3. IF EXACT SIZE PIPE BLOCKING IS NOT SHOWN, USE NEXT LARGER SIZE.
- 4. THRUST BLOCKING TO BE POURED IN PLACE CLASS "C" CONCRETE.

VERTICAL CONCRETE ANCHOR

NOT TO SCALE

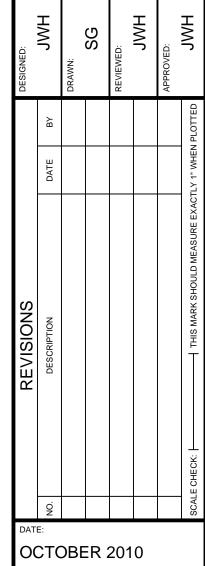
This document, originally Engineer, No. 16514, on 4-08-2013, shall not be used in lieu of a certified document.

DETAILS LINE ATER

WATER CITY OF

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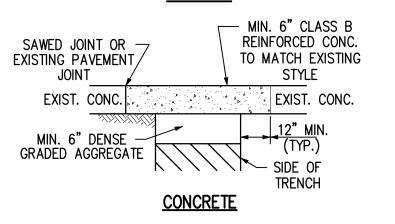
STANDARD

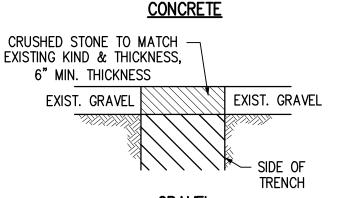


AS NOTED

C-06

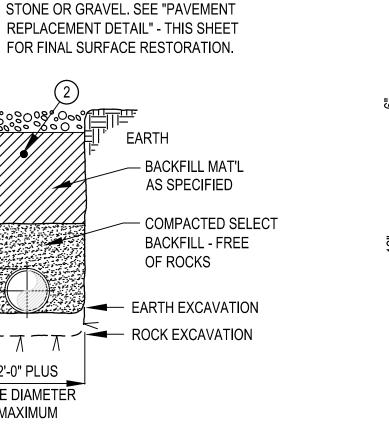
 ASPHALTIC CONC. CLASS I, CUT & SQUARED -TO MATCH EXISTING PAVEMENT, **EDGES** 2" MIN. THICKNESS STREET: 6" MIN. DENSE DRIVEWAY: MIN. 4" DENSE GRADED AGGREGATE — TRENCH - MIN. 6" CLASS B REINFORCED CONC. SAWED JOINT OR — EXISTING PAVEMENT/ TO MATCH EXISTING STYLE





<u>GRAVEL</u> PAVEMENT REPLACEMENT DETAILS

— COMPACTED DENSE GRADED AGGREGATE - 6" BELOW BOTTOM OF PAVEMENT TO GRADE. REMOVE AS NECESSARY FOR REPLACEMENT DETAIL" THIS SHEET.



90° BEND

45° BEND

22 1/2° BEND

11 1/4° BEND

PLUG

SIZE

В

SIZE MAIN BRANCH

DIMENSIONS ARE IN INCHES

16" 12" 10" 8" 6" 4" 2"

84 | 60 | 51 | 42 | 32 | 24 | 18

72 | 60 | 51 | 42 | 32 | 24 | 18

| 30 | 18 | 16 | 12 | 12 | 9 | 9 34 | 30 | 24 | 17 | 13 | 9 | 9

42 | 32 | 27 | 24 | 18 | 12 | 9

| 18 | 13 | 11 | 9 | 6 | 4 | 4

30 | 24 | 21 | 17 | 12 | 9 | 9

30 | 24 | 21 | 17 | 12 | 9 | 9

| 18 | 16 | 14 | 12 | 10 | 8 | 8

| 12 | 9 | 8 | 6 | 5 | 4 | 4

16" 12" 10" 8" 6" 4" 2"

| 66 | 52 | 43 | 34 | 27 | 20 | 18 66 52 43 34 27 20 18 | 12 | 12 | 12 | 12 | 12 | 12 | 12

44 32 22 15 11 11 11

66 | 52 | 43 | 34 | 43 | 26 | 26

66 | 52 | 43 | 34 | 43 | 26 | 26

16" | 12" | 10" | 8" | 6" | 4" |

16" | 12" | 10" | 8" | 6" | 4" |

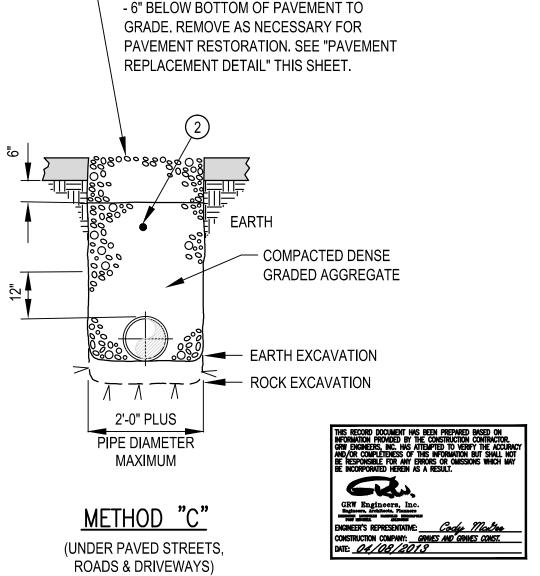
METHOD "B' (UNDER SIDEWALKS & **UNPAVED DRIVEWAYS**)

2'-0" PLUS

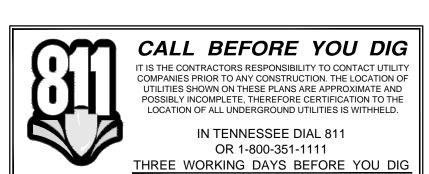
PIPE DIAMETER

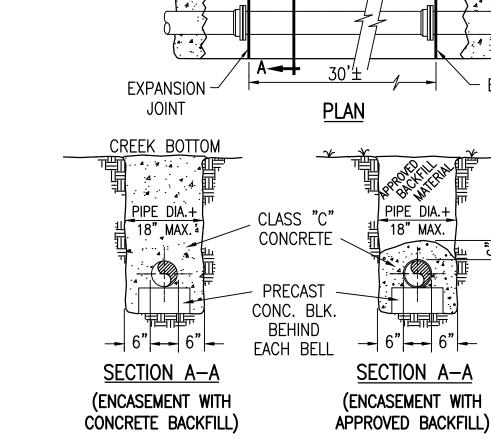
MAXIMUM

PRESSURE PIPE BEDDING & BACKFILLING DETAILS NOT TO SCALE









STANDARD CONCRETE ENCASEMENT NOT TO SCALE

1. CRUSHED STONE OR CONCRETE AS REQUIRED.

STANDARD DITCH CROSSING DETAIL

NOT TO SCALE

1. CRUSHED STONE OR CONCRETE AS REQUIRED.

STANDARD CREEK CROSSING DETAIL

NOT TO SCALE

CLASS "C" CONC.

EXPANSION

JOINT

FOR ENCASEMENT OVER

30' LONG PLACE 3/4"

FIBERBOARD EXPANSION

BETWEEN POURS APPROX.

JOINT AT PIPE JOINTS

EVERY 30'

NO.

IN EARTH BED

IN EARTH BED

─ CONCRETE

SEE NOTE NO. 1

IN ROCK BED

SEE NOT

NO.

PIPE DIA.

IN ROCK BED

ROCK