TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO. —

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| CONST. | 2015 | NH-29(86) | U5-1 |

MORGAN COUNTY 65001-3268-14

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## ESTIMATED UTILITY QUANTITIES

Project No. 1: 65001-3268-14

| ITEM NO. | DESCRIPTION | UNIT | QUANTITY | % Utility Betterment | %Project Public | %Project Private | FOOTNOTES |
|---|---|---|---|---|---|---|---|
| 795-01.05 | 8IN DIP RESTRAINED JOINT WATER LINE | L.F. | 300 | 10.00% | 90.00% | 0.00% | 1 |
| 795-01.09 | 12IN DIP RESTRAINED JOINT WATER LINE | L.F. | 1700 | 6.00% | 94.00% | 0.00% | 1 |
| 795-01.10 | 12IN DIP SLIP JOINT WATERLINE | L.F. | 100 | 6.00% | 94.00% | 0.00% | 1 |
| 795-03.02 | 2IN PVC WATERLINE | L.F. | 500 | | 100.00% | 0.00% | 1 |
| 795-03.08 | 12IN PVC WATERLINE | L.F. | 8000 | | 100.00% | 0.00% | 1 |
| 795-05.01 | HDD 2IN HDPE CARRIER PIPE-UNCON | L.F. | 400 | | 100.00% | 0.00% | 2,15 |
| 795-05.15 | HDD 2IN HDPE CARRIER PIPE-ROCK | L.F. | 50 | | 100.00% | 0.00% | 2,15 |
| 795-05.63 | BORE/JACK 12IN STEEL CASING PIPE-UNCON | L.F. | 50 | | 100.00% | 0.00% | 10,16 |
| 795-05.65 | BORE/JACK 16N STEEL CASING PIPE-UNCON | L.F. | 50 | | 100.00% | 0.00% | 10,16 |
| 795-05.68 | BORE/JACK 24IN STEEL CASING PIPE-UNCON | L.F. | 50 | | 100.00% | 0.00% | 10,16 |
| 795-06.01 | CONNECT TO 2IN WATERLINE | EACH | 1 | | 100.00% | 0.00% | 3 |
| 795-06.06 | CONNECT TO 10IN WATERLINE | EACH | 2 | | 100.00% | 0.00% | 3 |
| 795-06.07 | CONNECT TO 12IN WATERLINE | EACH | 1 | | 100.00% | 0.00% | 3 |
| 795-07.11 | 12INX4IN TAPPING SLEEVE AND VALVE | EACH | 1 | | 100.00% | 0.00% | 5 |
| 795-08.01 | 2IN GATE VALVE ASSEMBLY | EACH | 3 | | 100.00% | 0.00% | 5 |
| 795-08.04 | 6IN GATE VALVE ASSEMBLY | EACH | 1 | | 100.00% | 0.00% | 5 |
| 795-08.05 | 8IN GATE VALVE ASSEMBLY | EACH | 2 | 10.00% | 90.00% | 0.00% | 5 |
| 795-08.09 | 12IN GATE VALVE ASSEMBLY | EACH | 10 | 17.00% | 83.00% | 0.00% | 6,14 |
| 795-09.01 | 3/4IN WATER SERVICE METER ASSEMBLY | EACH | 18 | | 100.00% | 0.00% | 7 |
| 795-09.14 | 3/4IN HDPE SERVICE PIPE | L.F. | 2500 | | 100.00% | 0.00% | 7,17 |
| 795-09.28 | 3/4IN COPPER SERVICE PIPE | L.F. | 700 | | 100.00% | 0.00% | 7 |
| 795-09.29 | 1IN COPPER SERVICE PIPE | L.F. | 200 | | 100.00% | 0.00% | 6 |
| 795-10.03 | 1IN AUTO AIR RELEASE VALVE ASSEMBLY | EACH | 3 | | 100.00% | 0.00% | 6 |
| 795-11.02 | FIRE HYDRANT ASSEMBLY | EACH | 2 | | 100.00% | 0.00% | 9 |
| 795-12.01 | REMOVE FIRE HYDRANT | EACH | 1 | | 100.00% | 0.00% | 13 |
| 795-13.01 | DI FITTINGS | LBS | 8000 | | 100.00% | 0.00% | 11 |
| 795-15.02 | 12IN STEEL CASING PIPE OPEN CUT METHOD | L.F. | 100 | | 100.00% | 0.00% | 11 |
| 795-15.04 | 18IN STEEL CASING PIPE OPEN CUT METHOD | L.F. | 100 | | 100.00% | 0.00% | 11 |
| 795-15.07 | 24IN STEEL CASING PIPE OPEN CUT METHOD | L.F. | 400 | | 100.00% | 0.00% | 4,12 |

FOOTNOTE 1:
INCLUDES ALL MATERIALS, LABOR, EQUIPMENT FOR COMPLETE INSTALLATION OF PIPE INCLUDING BUT NOT LIMITED TO TRAFFIC CONTROL, MATERIALS, EQUIPMENT, EXCAVATION IN BOTH UNCONSOLIDATED AND ROCK, REMOVAL AND REPLACEMEVT OF UNSUITABLE SOIL, ENVELOPE/BEDDING MATERIAL, BACKFILLING, FLOWABLE FILL, THRUST BLOCKING, CONCRETE DEADMAN, PIPE FUSION, TRACER WIRE, WARNING TAPE, APPURTENANCES, TEMPORARY/PERMANENT SHORING, MAINTAINING THE TRENCH, TESTING, FLUSHING, DISINFECTION, BACTERIOILOGICAL SAMPLING, TEMPORARY/PERMANENT SURFACE RESTORATION, AND ANY OTHER LABOR OR MATERIAL REQUIRED TO COMPLETE THE WORK AS SPECIFIED ON THE PLANS.
FOOTNOTE 2:
INCLUDES ALL MATERIALS, LABOR, EQUIPMENT, AND TRAFFIC CONTROL, INCLUDING BUT NOT LIMITED TO FLUID CONTAINMENT FOR COMPLETE HORIZONTAL DIRECTIONAL DRILLING INSTALLATION OF CASING PIPE OR UNCASED CARRIER PIPE IN BOTH UNCONSOLIDATED SOIL OR ROCK. IF CASING PIPE HAS CARRIER PIPE, THE CARRIER PIPE SHALL BE PAID AT THE OPEN CUT ITEM.
FOOTNOTE 3:
INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY FOR CONNECTING TO AN EXISTING WATER LINE INCLUDING TRAFFIC CONTROL.
FOOTNOTE 4:
INCLUDES ALL MATERIALS LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO TAPPING SLEEVE, VALVE, VALVE BOX, BOX ADJUSTMENT, VALVE BOX COLLAR, VALVE MARKER, EXCAVATION, BEDDING, BACKFILL, BLOCKING AND RESTRAINT, TAP OF EXISTING LINE, AND TRAFFIC CONTROL.
FOOTNOTE 5:
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO FITTINGS, VALVE, VALVE STEM EXTENSIONS, VALVE BOX AND COVER, BOX ADJUSTMENT, VALVE BOX COLLAR, VALVE MARKER, EXCAVATION, BEDDING, BACKFILL, BLOCKING, AND TRAFFIC CONTROL.
FOOTNOTE 6:
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO MACHINERY, TOOLS OR APPARATUS NECESSARY FOR INSTALLATION OF ASSEMBLIES AS DESCRIBED IN THE PLANS AND SPECS EXCEPT FOR SERVICE LINE WHICH IS PAID SEPERATELY FOR EACK FOOT INSTALLED.
FOOTNOTE 7:
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE INSTALLATION OF SERVICE LINE OR CASING FOR SERVICE LINE ON LONG SIDE AND SHORT SIDE OF MAIN.
FOOTNOTE 9:
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR REMOVAL OF ITEM.
FOOTNOTE 10:
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO CASING PIPE, PIPE SPACERS, CASING END SEALS, FITTINGS, TRACER WIRE, WARNING TAPE, UTILITY LINE MARKERS AND TRAFFIC CONTROL. IF CASING PIPE HAS CARRIER PIPE, THE CARRIER PIPE SHALL BE PAID AT THE OPEN CUT ITEM.
FOOTNOTE 11:
INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT, SETUP AND TRAFFIC CONTROL.
FOOTNOTE 12:
INCLUDES 12IN x 2IN TAPPING SLEEVE AND VALVE.
FOOTNOTE 13:
INCLUDES ALL FITTINGS, GLANDS, AND RESTRAINT DEVICES DESCRIBED IN POUNDS.
FOOTNOTE 14:
INCLUDES INCLUDES CONNECTIONS TO NEW AND EXISTING SERVICE LINES. INCLUDES REMOVAL OF EXISITNG METER AND BOX.
FOOTNOTE 15:
INCLUDES 2IN CASING PIPE.
FOOTNOTE 16:
INCLUDED TO OBTAIN UNIT PRICE.
FOOTNOTE 17:
INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE INTALLATION OF TEMPORARY SERVICE LINES AS REQUIRED, INCLUDING ALL NECESSARY CONNECTIONS.

## LEGEND

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|---|---|
| W.V. ■ | NEW WATER VALVE |
| W.M. ■ | NEW WATER METER |
| ▼ | NEW REDUCER |
| | EXISTING FIRE HYDRANT |
| | NEW FIRE HYDRANT |
| □W.M. | EXISTING WATER METER |
| □W.V. | EXISTING WATER VALVE |
| — — 10" W — — | EXISTNG WATER MAIN |
| —— 12" W —— | NEW WATER MAIN |

## UTILITY CONTACT INFORMATION

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Survey & Design Department

GARY STEVEN BOX
REGISTERED ENGINEER
No. 19129
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

WATER RELOCATION UTILITY QUANTITIES