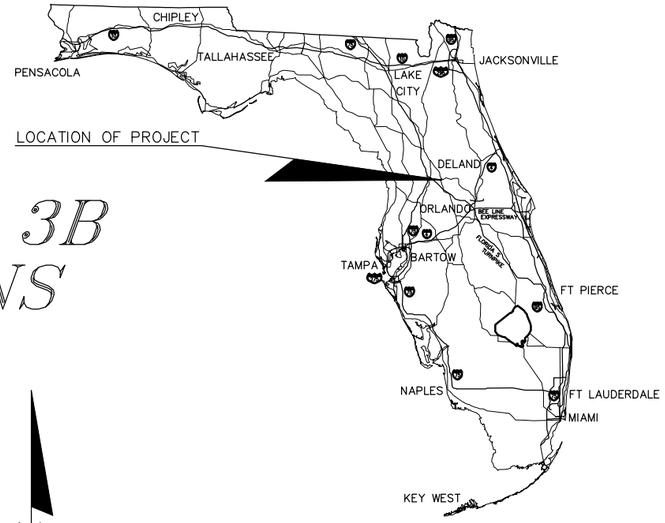
COMPONENTS OF CONTRACT PLANS SET

UTILITY WORK BY HIGHWAY CONTRACTOR AGREEMENT PLANS

CITY OF FRUITLAND PARK

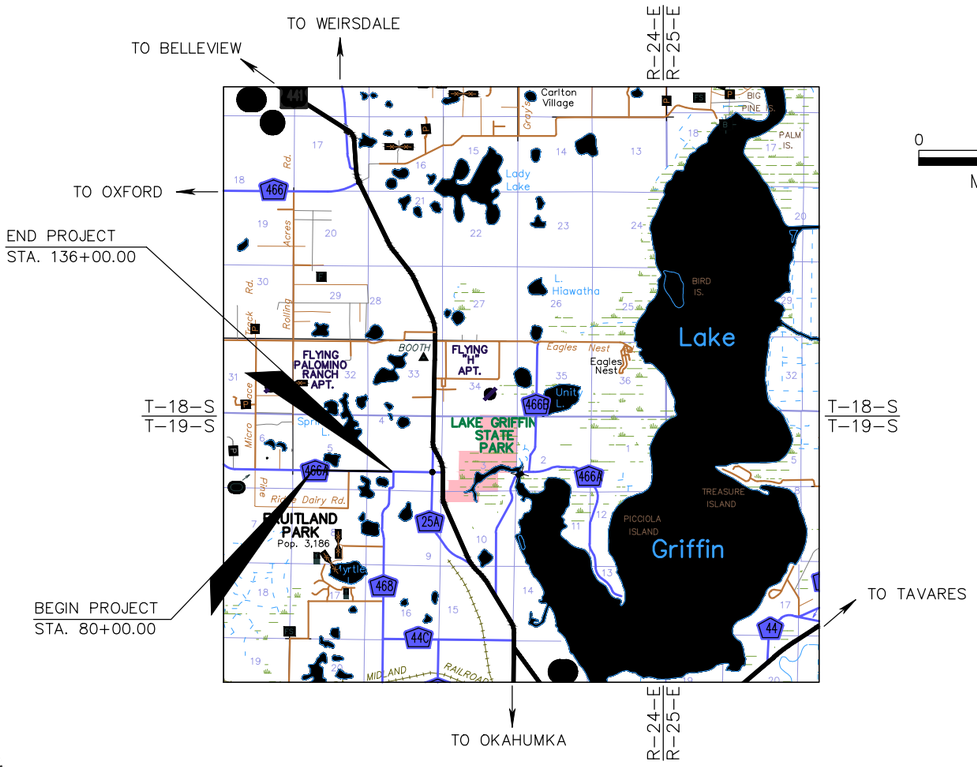
CONTRACT PLANS

COUNTY ROAD 466A PHASE 3B UTILITY ADJUSTMENT PLANS



INDEX OF UTILITY ADJUSTMENT PLANS

SHEET NO.	SHEET DESCRIPTION
U-01	KEY SHEET
U-02 – U-20	UTILITY DEMO SHEETS
U-21 – U-39	UTILITY PLAN SHEETS
U-40 – U-50	UTILITY DETAIL SHEETS



N

0 1 2

Miles

UTILITY SHOP DRAWINGS TO BE SUBMITTED TO:

DUANE K., BOOTH, P.E.
HALFF ASSOCIATES, INC.
902 NORTH SINCLAIR AVENUE
TAVARES, FLORIDA 32778
(352) 343-8481

PLANS PREPARED BY:

halff

902 North Sinclair Ave. Office: 352.343.8481
Tavares, Florida 32778 Fax: 352.343.8495
Certificate of Authorization Number: 33380

GOVERNING STANDARDS AND SPECIFICATIONS

CITY OF FRUITLAND PARK
UTILITY CONSTRUCTION STANDARDS AND DETAILS

DUANE K. BOOTH LICENSE No. 44631 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEPT. 06, 2023

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

100% PLANS
09-06-2023

UTILITY ADJUSTMENT PLANS ENGINEER OF RECORD: DUANE K., BOOTH, P.E.

P.E. NO.: 44631

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

LAKE COUNTY PROJECT MANAGER: GEORGE GADIEL, P.E.

FISCAL YEAR	SHEET NO.
23	U-01

an5134 Sep 06, 2023 - 10:12am A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B COVER.dwg

0 5 20
Feet

N

EXIST. PERP. ESMT. LINE

EXIST. 8" PVC
FORCE MAIN
TO REMAIN

EXIST. R/W LINE

℄ CONST. CR 466A

-00

81+00

82+00

83

MATCHLINE STA. 83+00.00

EXIST. FIRE HYDRANT ASSEMBLY
STA. 81+99.02, 45.30' RT
TO REMAIN IN SERVICE UNTIL NEW
FIRE HYDRANT IS INSTALLED,
THEN REMOVED
CAP EXIST. VALVE & ABANDON IN PLACE

EXIST. 12" GATE
VALVE TO REMAIN

EXIST. R/W LINE

EXIST. PERP. ESMT. LINE

EXIST. 12" PVC
WATER MAIN
TO REMAIN

EXIST. 12" CAP
TO BE REMOVED
STA. 82+08.03,
55.52' RT

DUANE K. BOOTH
LICENSE
No. 44631
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

SEPT. 06, 2023

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

halff
DUANE K. BOOTH, P.E.
P.E. LICENSE NUMBER 44631
902 NORTH SINCLAIR AVE.
TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY DEMO SHEET
STA. 80+00.00
- 83+00.00

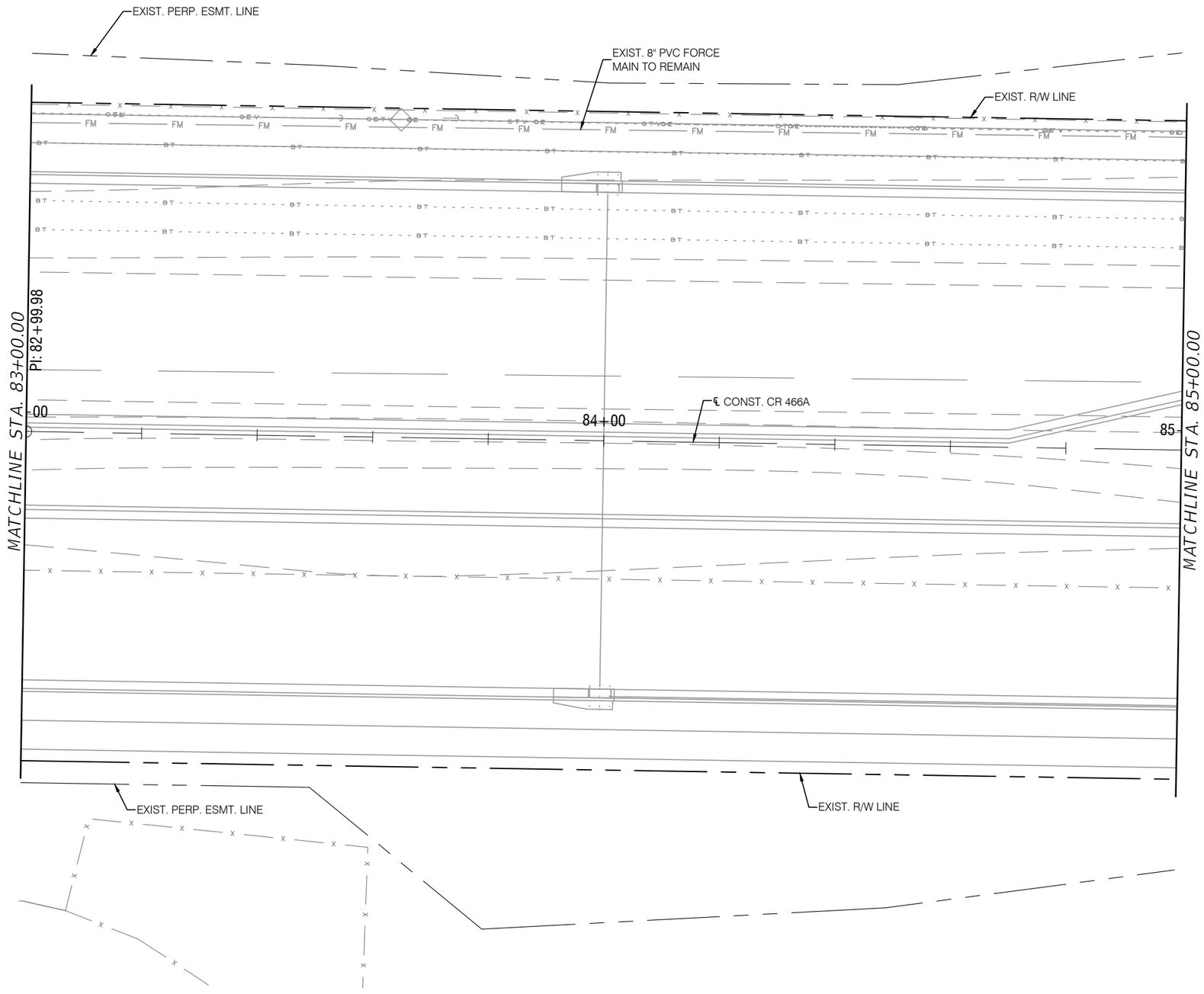
CITY OF FRUITLAND PARK
THE FRIENDLY CITY

SHEET NO.
U-02

ahS134 Sep 01, 2023 - 2:23PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B DEMO.dwg

0 5 20
Feet

N



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SEPT. 06, 2023

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

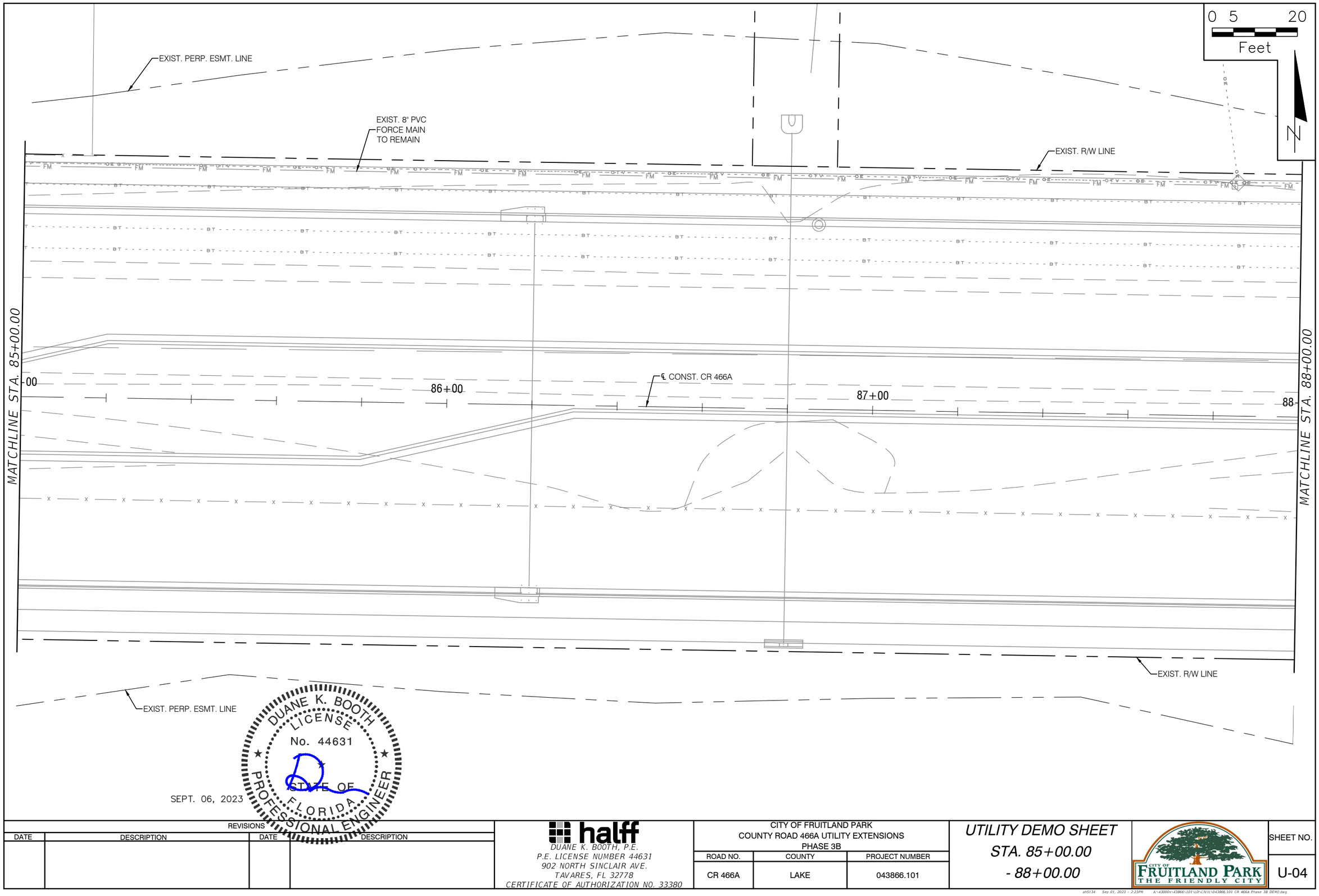
ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY DEMO SHEET
STA. 83+00.00 - 85+00.00

CITY OF FRUITLAND PARK
THE FRIENDLY CITY

SHEET NO.
U-03

ah5134 Sep 01, 2023 - 2:23PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B DEMO.dwg



DUANE K. BOOTH
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PROFESSIONAL ENGINEER

SEPT. 06, 2023

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY DEMO SHEET
STA. 85+00.00
- 88+00.00

CITY OF FRUITLAND PARK
THE FRIENDLY CITY

SHEET NO.
U-04

ah5134 Sep 01, 2023 - 2:23PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B DEM0.dwg

SEPT. 06, 2023

DUANE K. BOOTH
LICENSE
No. 44631
STATE OF FLORIDA
PROFESSIONAL ENGINEER

0 5 20
Feet

N

EXIST. 8" PVC FORCE MAIN TO REMAIN

EXIST. R/W LINE

EXIST. PERP. ESMT. LINE

℄ CONST. CR 466A

88+00

89+00

90+00

91+00

MATCHLINE STA. 88+00.00

MATCHLINE STA. 91+00.00

EXIST. R/W LINE

EXIST. PERP. ESMT. LINE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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P.E. LICENSE NUMBER 44631
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CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY DEMO SHEET
STA. 88+00.00
- 91+00.00

CITY OF FRUITLAND PARK
THE FRIENDLY CITY

SHEET NO.
U-05

ahl5134 Sep 01, 2023 - 2:23PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B DEMO.dwg

0 5 20
Feet

N

EXIST. PERP. ESMT. LINE

EXIST. R/W LINE

EXIST. 8" PVC FORCE MAIN TO REMAIN

EXIST. PERP. ESMT. LINE

EXIST. R/W LINE

MATCHLINE STA. 91+00.00

PC: 91+80.38

Mid: 92+98.25

℄ CONST. CR 466A

91+00

92+00

93+00

94

MATCHLINE STA. 94+00.00

EXIST. R/W LINE

EXIST. PERP. ESMT. LINE

DUANE K. BOOTH
LICENSE
No. 44631
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SEPT. 06, 2023

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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P.E. LICENSE NUMBER 44631
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TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY DEMO SHEET
STA. 91+00.00 - 94+00.00

CITY OF FRUITLAND PARK
THE FRIENDLY CITY

SHEET NO.
U-06

ah5134 Sep 01, 2023 - 2:23PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B DEM0.dwg

0 5 20
Feet

N

EXIST. PERP. ESMT. LINE

EXIST. R/W LINE

EXIST. R/W LINE

EXIST. 8" PVC FORCE MAIN TO REMAIN

PRC: 94+16.11

Mid: 95+30.99

PT: 96+45.87

℄ CONST. CR 466A

94+00

95+00

96+00

97

MATCHLINE STA. 94+00.00

MATCHLINE STA. 97+00.00

EXIST. R/W LINE

EXIST. R/W LINE

EXIST. PERP. ESMT. LINE

PROP. R/W LINE

DUANE K. BOOTH
LICENSE
No. 44631
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

SEPT. 06, 2023

REVISIONS			
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P.E. LICENSE NUMBER 44631
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TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY DEMO SHEET

STA. 94+00.00
- 97+00.00

CITY OF FRUITLAND PARK
THE FRIENDLY CITY

SHEET NO.
U-07

ahl5134 Sep 01, 2023 - 2:23PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B DEMO.dwg

0 5 20
Feet

N

LAKE JOSEPHINE DRIVE

EXIST. 1" POLY WATER SERVICE TO REMAIN

EXIST. 8" PVC FORCE MAIN TO REMAIN

EXIST. 10" PVC FORCE MAIN TO REMAIN

EXIST. 8" PVC FORCE MAIN TO REMAIN

EXIST. 10" PVC FORCE MAIN TO REMAIN

EXIST. PERP. ESMT. LINE

EXIST. R/W LINE

EXIST. 8" PVC FORCE MAIN TO BE REMOVED FROM STA. 98+61.04, 45.99' LT TO STA. 99+21.94, 49.60' RT

EXIST. 1" POLY WATER SERVICE TO BE REMOVED FROM STA. 99+18.95, 67.87' LT TO STA. 105+52.08, 27.01' RT

EXIST. 1" BALL VALVE & BOX TO BE REMOVED STA. 99+45.46, 45.04' LT

MATCHLINE STA. 97+00.00

98+00

℄ CONST. CR 466A

99+00

100

MATCHLINE STA. 100+00.00

EXIST. 6" HDPE FORCE MAIN TO REMAIN

PROP. R/W LINE

EXIST. R/W LINE

EXIST. PERP. ESMT. LINE

DUANE K. BOOTH LICENSE No. 44631 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEPT. 06, 2023

REVISIONS			
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TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

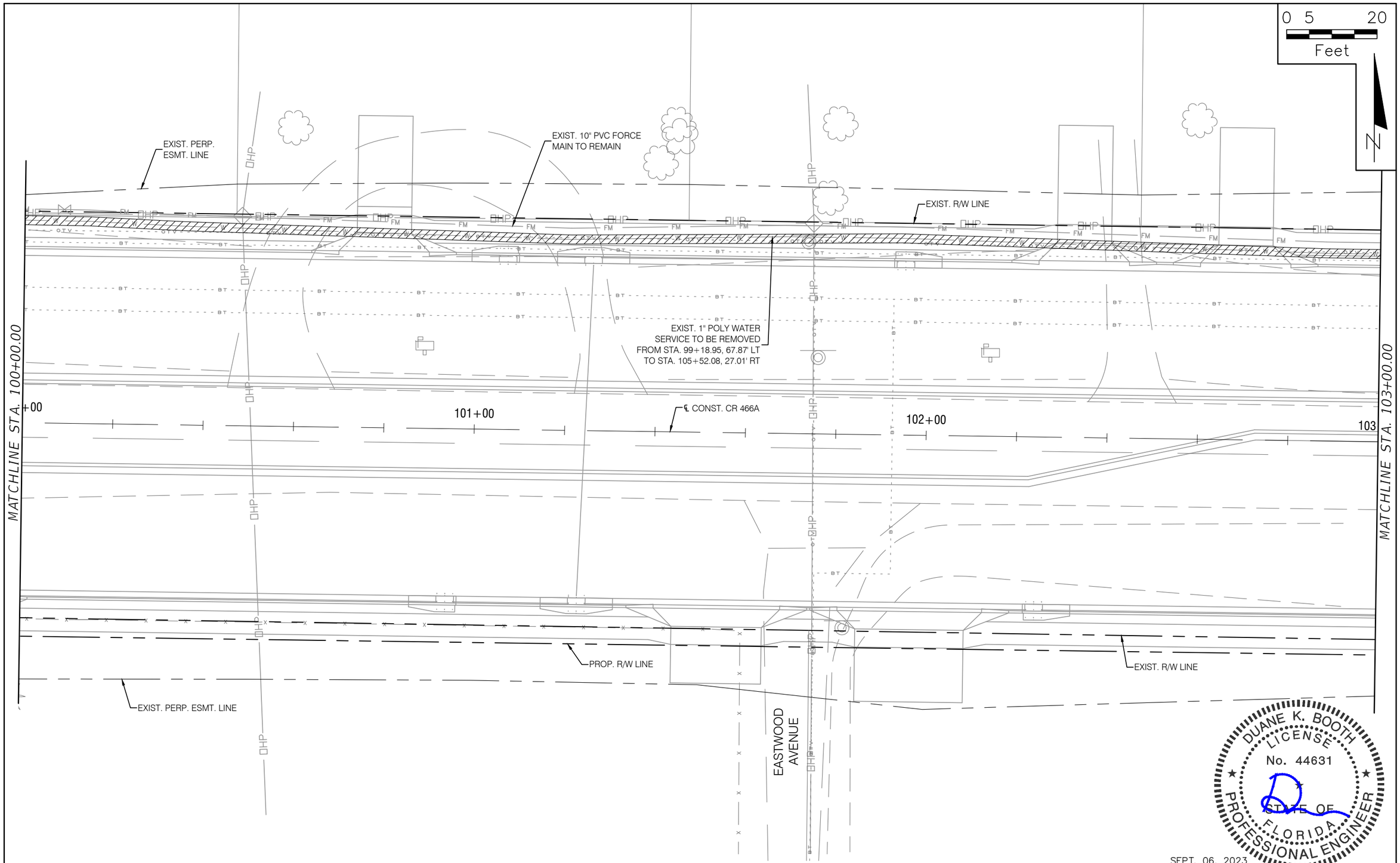
ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY DEMO SHEET
STA. 97+00.00 - 100+00.00

CITY OF FRUITLAND PARK THE FRIENDLY CITY

SHEET NO.
U-08

ahl5134 Sep 01, 2023 - 2:23PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B DEMO.dwg



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SEPT. 06, 2023

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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P.E. LICENSE NUMBER 44631
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TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY DEMO SHEET
STA. 100+00.00 - 103+00.00

CITY OF FRUITLAND PARK THE FRIENDLY CITY

SHEET NO.
U-09

ah5134 Sep 01, 2023 - 2:23PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B DEM0.dwg

0 5 20
Feet

N

MARGUERITE AVENUE

EXIST. PERP. ESMT. LINE

EXIST. 10" PVC FORCE MAIN TO REMAIN

EXIST. R/W LINE

EXIST. 1" POLY WATER SERVICE TO BE REMOVED FROM STA. 99+18.95, 67.87' LT TO STA. 105+52.08, 27.01' RT

EXIST. FIRE HYDRANT ASSEMBLY STA. 105+47.45, 28.92' RT TO REMAIN IN SERVICE UNTIL NEW FIRE HYDRANT IS INSTALLED, THEN REMOVED

MATCHLINE STA. 103+00.00

MATCHLINE STA. 106+00.00

103+00

104+00

℄ CONST. CR 466A

105+00

106

EXIST. 4" FUSIBLE PVC SLEEVE & 1" POLY WATER SERVICE TO LIFT STATION TO BE REMOVED

EXIST. 1" WATER METER TO BE REMOVED STA. 105+52.08, 27.01' RT

EXIST. 6" PVC WATER MAIN TO BE REMOVED FROM STA. 104+72.47, 25.29' RT TO STA. 109+75.00, 25.59' RT

EXIST. 6" GATE VALVE TO BE REMOVED STA. 105+44.29, 25.81' RT

EXIST. 1" POLY SERVICE TO BE REMOVED

EXIST. R/W LINE

PROP. R/W LINE

EXIST. R/W LINE

PROP. R/W LINE

EXIST. PERP. ESMT. LINE

EXIST. PERP. ESMT. LINE

CUTOFF ROAD

EXIST. 2" SCHEDULE 40 PVC WATER MAIN TO BE REMOVED FROM STA. 105+38.01, 88.39' RT TO STA. 105+45.51, 25.73' RT

EXIST. 2" SCHEDULE 40 PVC WATER MAIN TO REMAIN

DUANE K. BOOTH
LICENSE
No. 44631
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SEPT. 06, 2023

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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P.E. LICENSE NUMBER 44631
902 NORTH SINCLAIR AVE.
TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY DEMO SHEET
STA. 103+00.00 - 106+00.00

CITY OF FRUITLAND PARK
THE FRIENDLY CITY

SHEET NO.
U-10

ahS134 Sep 01, 2023 - 2:23PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B DEMO.dwg

0 5 20
Feet

N

EXIST. PERP.
ESMT. LINE

EXIST. 10" PVC FORCE
MAIN TO REMAIN

EXIST. R/W LINE

℄ CONST. CR 466A

106+00

107+00

108+00

109

MATCHLINE STA. 106+00.00

MATCHLINE STA. 109+00.00

EXIST. 6" PVC WATER
MAIN TO BE REMOVED
FROM STA. 104+72.47, 25.29' RT
TO STA. 109+75.00, 25.59' RT

PROP. R/W LINE

EXIST. R/W LINE

EXIST. PERP.
ESMT. LINE

EXIST. (2) 1" SERVICES
& (3) 1" WATER METERS
TO BE REMOVED
STA. 106+86.36, 34.38' RT

EXIST. (2) 1" SERVICES,
(4) 1" WATER METERS &
(1) 1¼" BACK FLOW PREVENTER
TO BE REMOVED
STA. 107+98.74, 34.92' RT

DUANE K. BOOTH
LICENSE
No. 44631
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

SEPT. 06, 2023

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

halff
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P.E. LICENSE NUMBER 44631
902 NORTH SINCLAIR AVE.
TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY DEMO SHEET
STA. 106+00.00 - 109+00.00

CITY OF FRUITLAND PARK
THE FRIENDLY CITY

SHEET NO.
U-11

ah5134 Sep 01, 2023 - 2:23PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B DEMO.dwg

SEPT. 06, 2023

DUANE K. BOOTH
LICENSE
No. 44631
STATE OF FLORIDA
PROFESSIONAL ENGINEER

0 5 20
Feet

N

EXIST. PERP. ESMT. LINE

EXIST. 10" PVC FORCE MAIN TO REMAIN

EXIST. R/W LINE

MATCHLINE STA. 109+00.00

MATCHLINE STA. 112+00.00

108+00

110+00

℄ CONST. CR 466A

111+00

112

EXIST. 6" PVC WATER MAIN TO BE REMOVED FROM STA. 104+72.47, 25.29' RT TO STA. 109+75.00, 25.59' RT

EXIST. 8" PVC WATER MAIN TO BE REMOVED FROM STA. 109+75.00, 25.59' RT TO STA. 126+55.41, 48.30' RT

EXIST. 6" PVC WATER MAIN TO BE REMOVED FROM STA. 109+16.97, 24.66' RT TO STA. 109+17.34, 69.11' RT

EXIST. 6" GATE VALVE TO BE REMOVED STA. 109+16.33, 48.74' RT

VALLEY ROAD

EXIST. 6" PVC WATER MAIN TO REMAIN

EXIST. PERP. ESMT. LINE

EXIST. FIRE HYDRANT ASSEMBLY STA. 109+84.17, 28.54' RT TO REMAIN IN SERVICE UNTIL NEW FIRE HYDRANT IS INSTALLED, THEN REMOVED

EXIST. (2) 1" SERVICES TO BE REMOVED STA. 110+69.10, 43.67' RT

EXIST. R/W LINE

EXIST. (1) 1" SERVICE, (3) 1" WATER METERS, & (3) 1¼" BACK FLOW PREVENTERS TO BE REMOVED STA. 110+87.31, 41.33' RT

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY DEMO SHEET
STA. 109+00.00
- 112+00.00

CITY OF FRUITLAND PARK
THE FRIENDLY CITY

SHEET NO.
U-12

ahS134 Sep 01, 2023 - 2:23PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B DEMO.dwg

SEPT. 06, 2023

DUANE K. BOOTH
LICENSE
No. 44631
STATE OF FLORIDA
PROFESSIONAL ENGINEER

0 5 20
Feet

N

EXIST. PERP. ESMT. LINE

EXIST. R/W LINE

EXIST. 10" PVC FORCE MAIN TO REMAIN

MATCHLINE STA. 112+00.00

MATCHLINE STA. 115+00.00

+00

113+00

℄ CONST. CR 466A

114+00

115

EXIST. 8" PVC WATER MAIN TO BE REMOVED
FROM STA. 109+75.00, 25.59' RT
TO STA. 126+55.41, 48.30' RT

EXIST. R/W LINE

EXIST. 1" SERVICE & WATER
METER TO BE REMOVED
STA. 113+47.95, 44.51' RT

EXIST. 1" SERVICE & WATER
METER TO BE REMOVED
STA. 113+51.07, 45.15' RT

EXIST. PERP. ESMT. LINE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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P.E. LICENSE NUMBER 44631
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TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY DEMO SHEET
STA. 112+00.00 - 115+00.00

CITY OF FRUITLAND PARK
THE FRIENDLY CITY

SHEET NO.
U-13

ah5134 Sep 01, 2023 - 2:23PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B DEMO.dwg

SEPT. 06, 2023

DUANE K. BOOTH
LICENSE
No. 44631
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

0 5 20
Feet

N

EXIST. PERP. ESMT. LINE

EXIST. R/W LINE

EXIST. 10" PVC FORCE
MAIN TO REMAIN

MATCHLINE STA. 115+00.00

115+00

116+00

PC: 116+31.40

℄ CONST. CR 466A

117+00

Mid: 117+27.83

118

MATCHLINE STA. 118+00.00

EXIST. 8" PVC WATER
MAIN TO BE REMOVED
FROM STA. 109+75.00, 25.59' RT
TO STA. 126+55.41, 48.30' RT

EXIST. (1) 1" SERVICE,
(3) 1" WATER METERS,
& (2) BOLLARDS
TO BE REMOVED
STA. 115+59.92, 41.61' RT

EXIST.
R/W
LINE

EXIST. (1) 1" SERVICE,
(3) 1" WATER METERS
& (2) BOLLARDS
TO BE REMOVED
STA. 116+11.45, 41.28' RT

EXIST. R/W LINE

EXIST. PERP.
ESMT. LINE

EXIST. (1) 1" SERVICE,
(3) 1" WATER METERS,
& (2) BOLLARDS
TO BE REMOVED
STA. 117+19.35, 57.76' RT

EXIST. (3) 1" SERVICES,
(3) 1" WATER METERS,
& (2) BOLLARDS
TO BE REMOVED
STA. 117+77.10, 32.63' RT

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

halff
DUANE K. BOOTH, P.E.
P.E. LICENSE NUMBER 44631
902 NORTH SINCLAIR AVE.
TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

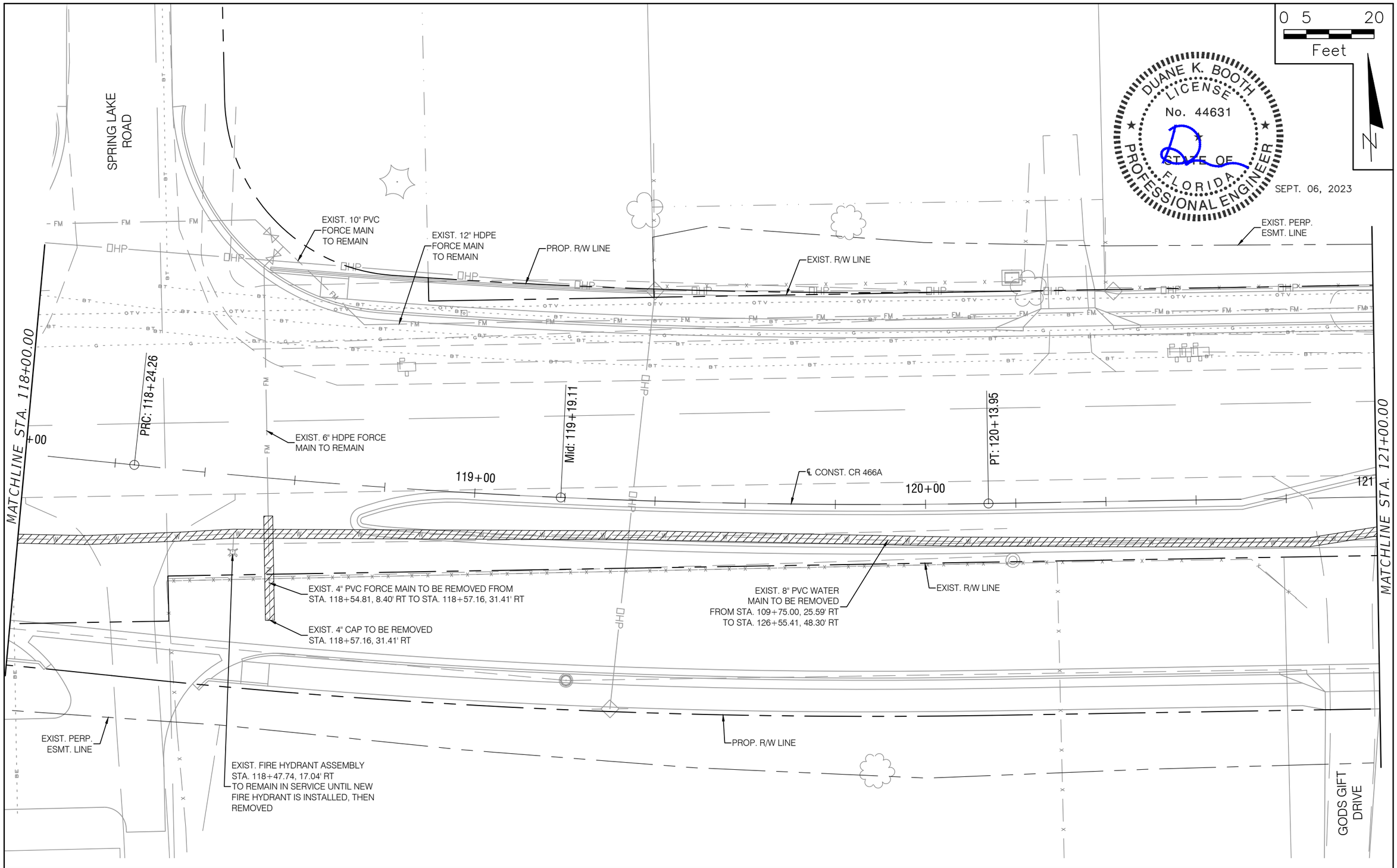
CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY DEMO SHEET
STA. 115+00.00 - 118+00.00

CITY OF FRUITLAND PARK
THE FRIENDLY CITY

SHEET NO.
U-14



DUANE K. BOOTH LICENSE No. 44631 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEPT. 06, 2023

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

halff
DUANE K. BOOTH, P.E.
P.E. LICENSE NUMBER 44631
902 NORTH SINCLAIR AVE.
TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

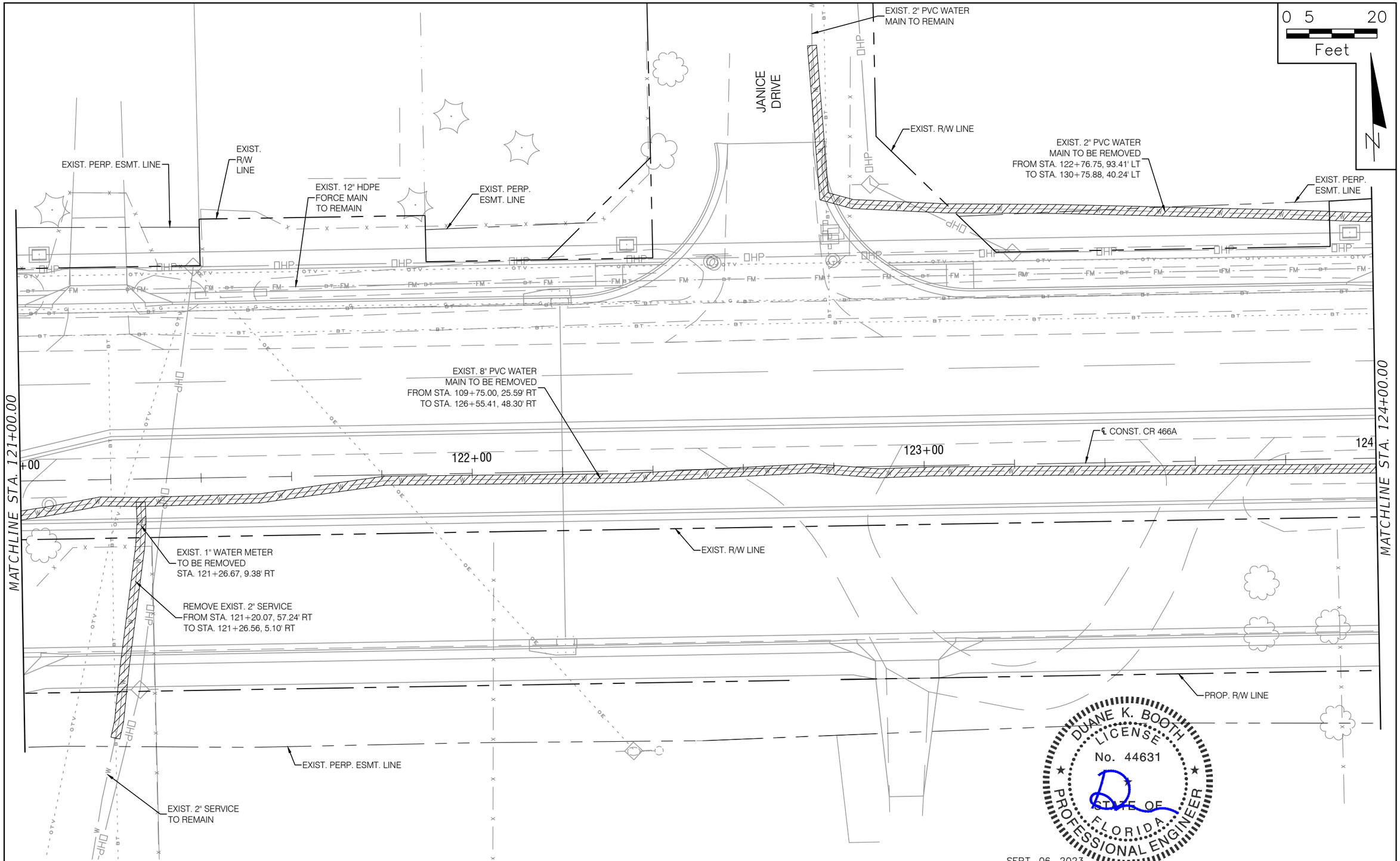
ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY DEMO SHEET
STA. 118+00.00
- 121+00.00

CITY OF FRUITLAND PARK THE FRIENDLY CITY

SHEET NO.
U-15

ah5134 Sep 01, 2023 - 2:23PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B DEM0.dwg



DUANE K. BOOTH LICENSE No. 44631 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEPT. 06, 2023

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

halff
DUANE K. BOOTH, P.E.
P.E. LICENSE NUMBER 44631
902 NORTH SINCLAIR AVE.
TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY DEMO SHEET
STA. 121+00.00 - 124+00.00

CITY OF FRUITLAND PARK THE FRIENDLY CITY

SHEET NO. U-16

ah5134 Sep 01, 2023 - 2:23PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B DEMO.dwg

0 5 20
Feet

N

EXIST. 1" WATER METER TO REMAIN

REMOVE EXIST. 1" SERVICE STA. 124+27.07, 67.99' LT

EXIST. 1" WATER METER TO REMAIN

REMOVE EXIST. 1" SERVICE STA. 124+73.46, 59.28' LT

EXIST. 12" HDPE FORCE MAIN TO REMAIN

EXIST. 2" PVC WATER MAIN TO BE REMOVED FROM STA. 122+76.75, 93.41' LT TO STA. 130+75.88, 40.24' LT

EXIST. R/W LINE

EXIST. 1" WATER METER TO REMAIN

REMOVE EXIST. 1" SERVICE STA. 126+40.25, 55.20' LT

EXIST. 1" WATER METER TO REMAIN

REMOVE EXIST. 1" SERVICE STA. 126+49.84, 64.05' LT

EXIST. PERP. ESMT. LINE

EXIST. 3" PE WATER MAIN TO BE REMOVED FROM STA. 126+34.54, 3.50' RT TO STA. 126+39.68, 48.84' LT

MATCHLINE STA. 124+00.00

MATCHLINE STA. 127+00.00

125+00

℄ CONST. CR 466A

126+00

127

EXIST. 8" PVC WATER MAIN TO BE REMOVED FROM STA. 109+75.00, 25.59' RT TO STA. 126+55.41, 48.30' RT

EXIST. R/W LINE

EXIST. 12"x8" REDUCER TO BE REMOVED STA. 126+55.41, 48.30' RT

PROP. R/W LINE

EXIST. FIRE HYDRANT ASSEMBLY TO REMAIN

EXIST. 12" PVC WATER MAIN TO REMAIN

EXIST. 12" GATE VALVE TO REMAIN

EXIST. PERP. ESMT. LINE

DUANE K. BOOTH LICENSE No. 44631 STATE OF FLORIDA PROFESSIONAL ENGINEER

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CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY DEMO SHEET
STA. 124+00.00 - 127+00.00

CITY OF FRUITLAND PARK THE FRIENDLY CITY

SHEET NO. U-17

ah5134 Sep 01, 2023 - 2:23PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B DEMO.dwg

0 5 20
Feet

N

EXIST. PERP. ESMT. LINE

EXIST. 2" PVC WATER MAIN TO BE REMOVED FROM STA. 122+76.75, 93.41' LT TO STA. 130+75.88, 40.24' LT

EXIST. R/W LINE

EXIST. 12" HDPE FORCE MAIN TO REMAIN

EXIST. 1" SERVICE & WATER METER TO REMAIN

EXIST. 10" PVC FORCE MAIN TO REMAIN

EXIST. 12" HDPE FORCE MAIN TO BE REMOVED FROM STA. 128+62.18, 40.00' LT TO STA. 128+82.52, 38.84' LT

EXIST. 10" PVC FORCE MAIN TO BE REMOVED FROM STA. 128+82.52, 38.84' LT TO STA. 128+97.25, 41.09' LT

MATCHLINE STA. 127+00.00

PC: 127+82.95

128+00

℄ CONST. CR 466A

Mid: 128+97.01

129+00

130

MATCHLINE STA. 130+00.00

EXIST. R/W LINE

PROP. R/W LINE

EXIST. 12" PVC WATER MAIN TO REMAIN

EXIST. PERP. ESMT. LINE

EXIST. 1" SERVICE & WATER METER TO REMAIN

DUANE K. BOOTH LICENSE No. 44631 STATE OF FLORIDA PROFESSIONAL ENGINEER

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CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

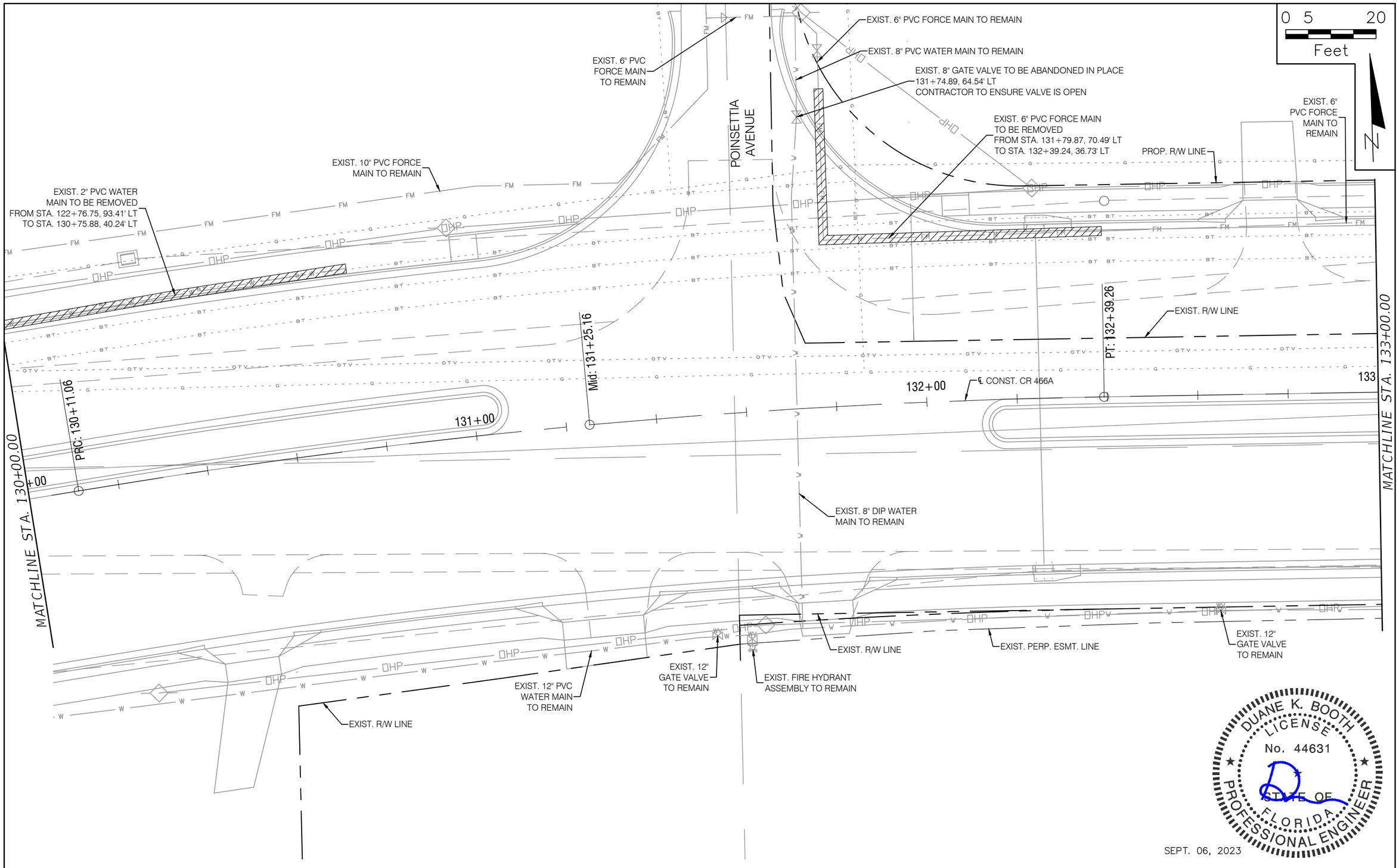
ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY DEMO SHEET
STA. 127+00.00
- 130+00.00

CITY OF FRUITLAND PARK
THE FRIENDLY CITY

SHEET NO.
U-18

ah5134 Sep 01, 2023 - 2:23PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B DEMO.dwg



DUANE K. BOOTH
LICENSE
No. 44631
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SEPT. 06, 2023

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TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY DEMO SHEET
STA. 130+00.00
- 133+00.00

CITY OF FRUITLAND PARK
THE FRIENDLY CITY

SHEET NO.
U-19

ah5134 Sep 01, 2023 - 2:23PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B DEMO.dwg

0 5 20
Feet

N

EXIST. PERP. ESMT. LINE

PROP. R/W LINE

EXIST. 6" PVC FORCE MAIN TO REMAIN

EXIST. 1" WATER METER TO REMAIN

EXIST. PERP. ESMT. LINE

EXIST. R/W LINE

MATCHLINE STA. 133+00.00

+00

134+00

135+00

℄ CONST. CR 466A

PC: 135+97.35

136+00

EXIST. 1" SERVICE TO REMAIN

EXIST. FIRE HYDRANT ASSEMBLY (VERIFY LOCATION) TO REMAIN

EXIST. 1" SERVICE & WATER METER TO REMAIN

EXIST. PERP. ESMT. LINE

EXIST. 1" SERVICE & WATER METER TO REMAIN

EXIST. 1" SERVICE & WATER METER TO REMAIN

EXIST. 12" PVC WATER MAIN TO REMAIN

EXIST. R/W LINE

EXIST. 1" SERVICE & WATER METER TO REMAIN

DUANE K. BOOTH
LICENSE
No. 44631
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SEPT. 06, 2023

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TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY DEMO SHEET
STA. 133+00.00
- 136+00.00

CITY OF FRUITLAND PARK
THE FRIENDLY CITY

SHEET NO.
U-20

ah5134 Sep 01, 2023 - 2:23PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B DEMO.dwg

LEGEND

FM — FORCE MAIN	OVER EXIST. UTILITY	TEE	VALVE
WM — WATER MAIN	UNDER EXIST. UTILITY	ELBOW	REDUCER
WATER SERVICE & WATER METER	FIRE HYDRANT	CAP	BOLLARD

SEPT. 06, 2023

DUANE K. BOOTH LICENSE No. 44631 STATE OF FLORIDA PROFESSIONAL ENGINEER

0 5 20 Feet

N

EXIST. PERP. ESMT. LINE

EXIST. 8" PVC FORCE MAIN TO REMAIN

EXIST. R/W LINE

81+00

℄ CONST. CR 466A

82+00

83

MATCHLINE STA. 83+00.00

CONNECT TO EXIST. 12" PVC WATER MAIN STA. 82+08.03, 55.52' RT BT-1

INSTALL FIRE HYDRANT ASSEMBLY STA. 82+14.82, 55.52' RT

PROP. 2,286 LF OF 12" PVC WATER MAIN 36" MIN. COVER

EXIST. R/W LINE

EXIST. PERP. ESMT. LINE

EXIST. 12" PVC WATER MAIN TO REMAIN

EXIST. 12" GATE VALVE TO REMAIN

GENERAL NOTES FOR UTILITY ADJUSTMENTS:

1. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
2. EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
3. UTILITY/AGENCY OWNERS:
   CITY OF FRUITLAND PARK (WATER AND SEWER)
   ROBB DICUS
   PUBLIC WORKS DIRECTOR
   PHONE: (352) 360-6795
   RDICUS@FRUITLANDPARK.ORG
4. ALL FIRE HYDRANT ASSEMBLIES AND VALVES TO BE REMOVED SHALL BE DELIVERED TO THE CITY OF FRUITLAND PARK, PUBLIC WORKS DEPT.
5. BT-# STANDS FOR BACTERIOLOGICAL TESTING SAMPLE POINT LOCATION.
6. THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS A MIN. OF 2 WEEKS PRIOR TO EXCAVATING IN THE VICINITY OF EXIST. UTILITIES FOR INSTALLATION OF WATER AND SEWER MAINS. CONTRACTOR SHALL COORDINATE WITH EXIST. UTILITY OWNERS FOR PROTECTION AND/OR SUPPORT OF THEIR FACILITIES.

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CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY PLAN SHEET
STA. 80+00.00
- 83+00.00

CITY OF FRUITLAND PARK THE FRIENDLY CITY

SHEET NO. U-21

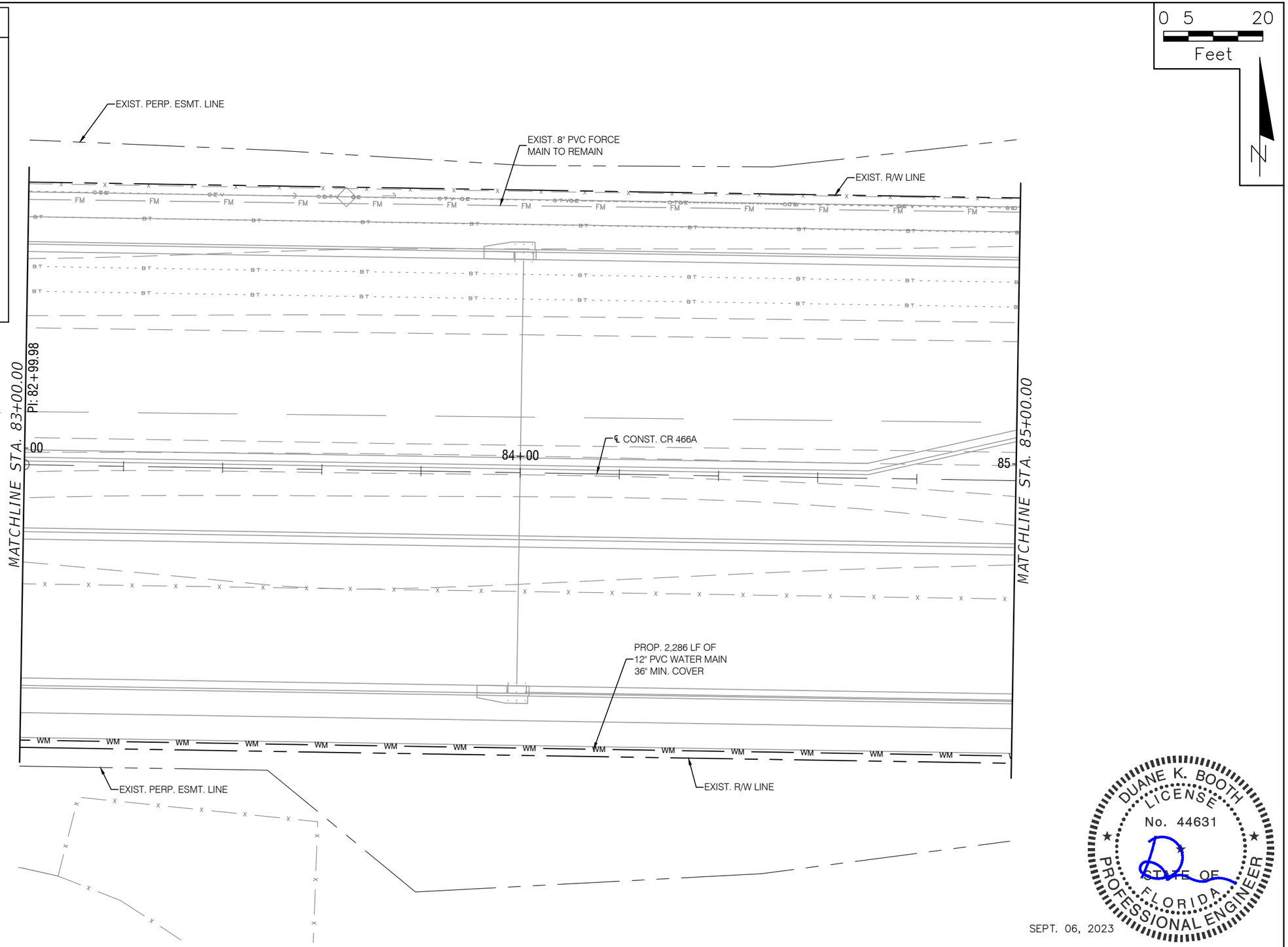
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LEGEND

FM	FORCE MAIN
WM	WATER MAIN
	WATER SERVICE & WATER METER
	OVER EXIST. UTILITY
	UNDER EXIST. UTILITY
	FIRE HYDRANT
	TEE
	ELBOW
	CAP
	VALVE
	REDUCER
	BOLLARD

GENERAL NOTES FOR UTILITY ADJUSTMENTS:

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DUANE K. BOOTH LICENSE No. 44631 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEPT. 06, 2023

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902 NORTH SINCLAIR AVE.
TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

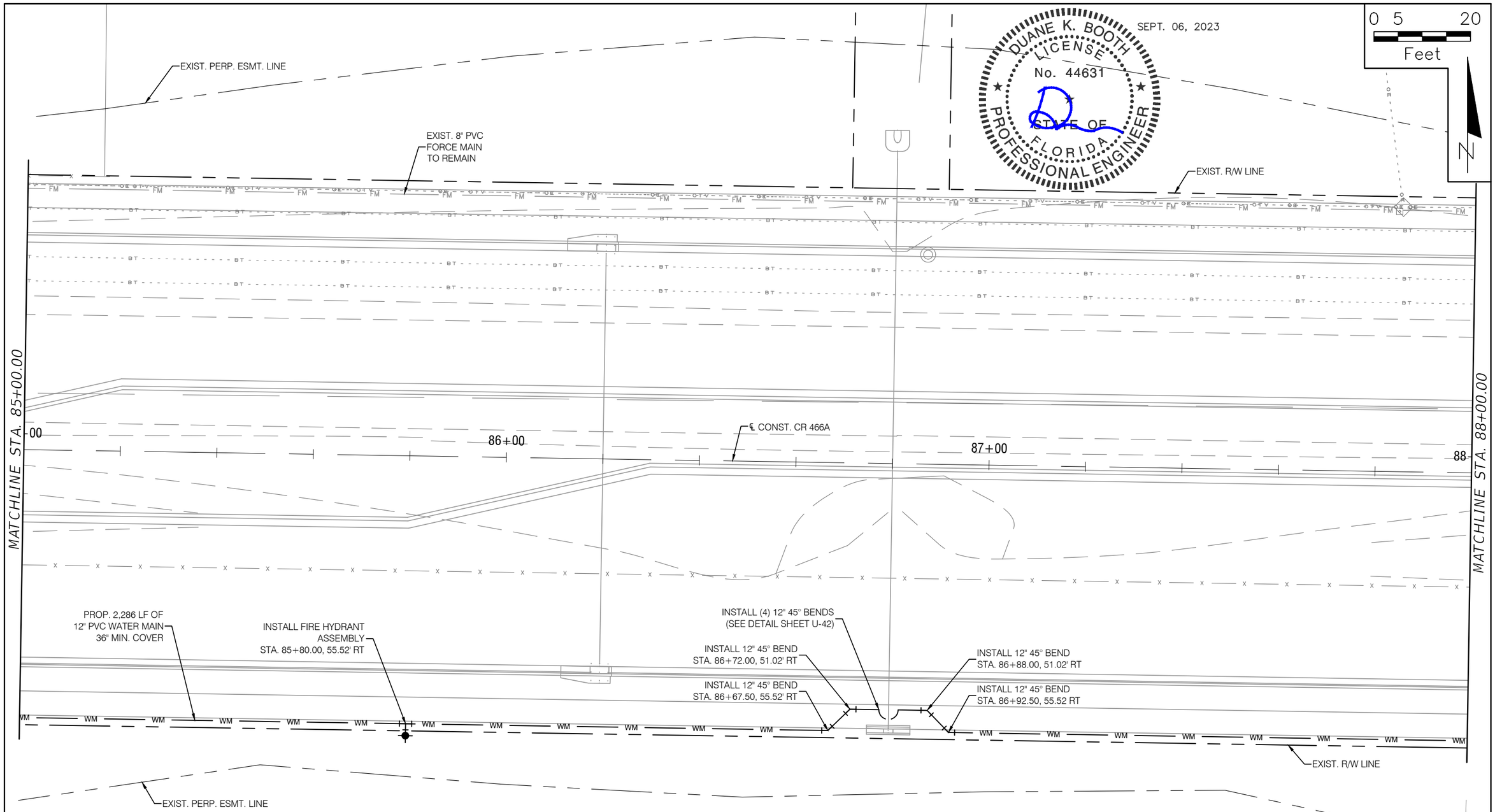
ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY PLAN SHEET
STA. 83+00.00 - 85+00.00

CITY OF FRUITLAND PARK THE FRIENDLY CITY

SHEET NO. U-22

ahl5134 Aug 29, 2023 - 3:51PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B BASE.dwg



DUANE K. BOOTH LICENSE No. 44631 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEPT. 06, 2023

0 5 20 Feet

N

LEGEND

FM — FORCE MAIN	OVER EXIST. UTILITY	TEE	VALVE
WM — WATER MAIN	UNDER EXIST. UTILITY	ELBOW	REDUCER
WATER SERVICE & WATER METER	FIRE HYDRANT	CAP	BOLLARD

GENERAL NOTES FOR UTILITY ADJUSTMENTS:

1. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
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   (WATER AND SEWER)
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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

halff
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P.E. LICENSE NUMBER 44631
902 NORTH SINCLAIR AVE.
TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY PLAN SHEET
STA. 85+00.00 - 88+00.00

CITY OF FRUITLAND PARK THE FRIENDLY CITY

SHEET NO. U-23

ah5134 Aug 29, 2023 - 3:51PM A:\43000s\s3866\101\LD\CIVIL\043866.101 CR 466A Phase 3B BASE.dwg

LEGEND

FM — FORCE MAIN	OVER EXIST. UTILITY	TEE	VALVE
WM — WATER MAIN	UNDER EXIST. UTILITY	ELBOW	REDUCER
WATER SERVICE & WATER METER	FIRE HYDRANT	CAP	BOLLARD

GENERAL NOTES FOR UTILITY ADJUSTMENTS:

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0 5 20
Feet

N

EXIST. 8" PVC FORCE MAIN TO REMAIN
EXIST. R/W LINE
EXIST. PERP. ESMT. LINE
℄ CONST. CR 466A
MATCHLINE STA. 88+00.00
MATCHLINE STA. 91+00.00
88+00
89+00
90+00
91+00
PROP. 2,286 LF OF 12" PVC WATER MAIN 36" MIN. COVER
INSTALL FIRE HYDRANT ASSEMBLY STA. 89+52.40, 55.52' RT BT-2
INSTALL 12" GATE VALVE STA. 89+72.40, 55.52' RT
INSTALL 12" 45° BEND STA. 90+30.07, 55.52' RT
INSTALL 12" 45° BEND STA. 90+35.55, 61.00' RT
INSTALL 12" 45° BEND STA. 90+92.03, 55.52' RT
INSTALL 12" 45° BEND STA. 90+86.55, 61.00' RT
EXIST. R/W LINE
EXIST. PERP. ESMT. LINE

DUANE K. BOOTH LICENSE No. 44631 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEPT. 06, 2023

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

halff
DUANE K. BOOTH, P.E.
P.E. LICENSE NUMBER 44631
902 NORTH SINCLAIR AVE.
TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

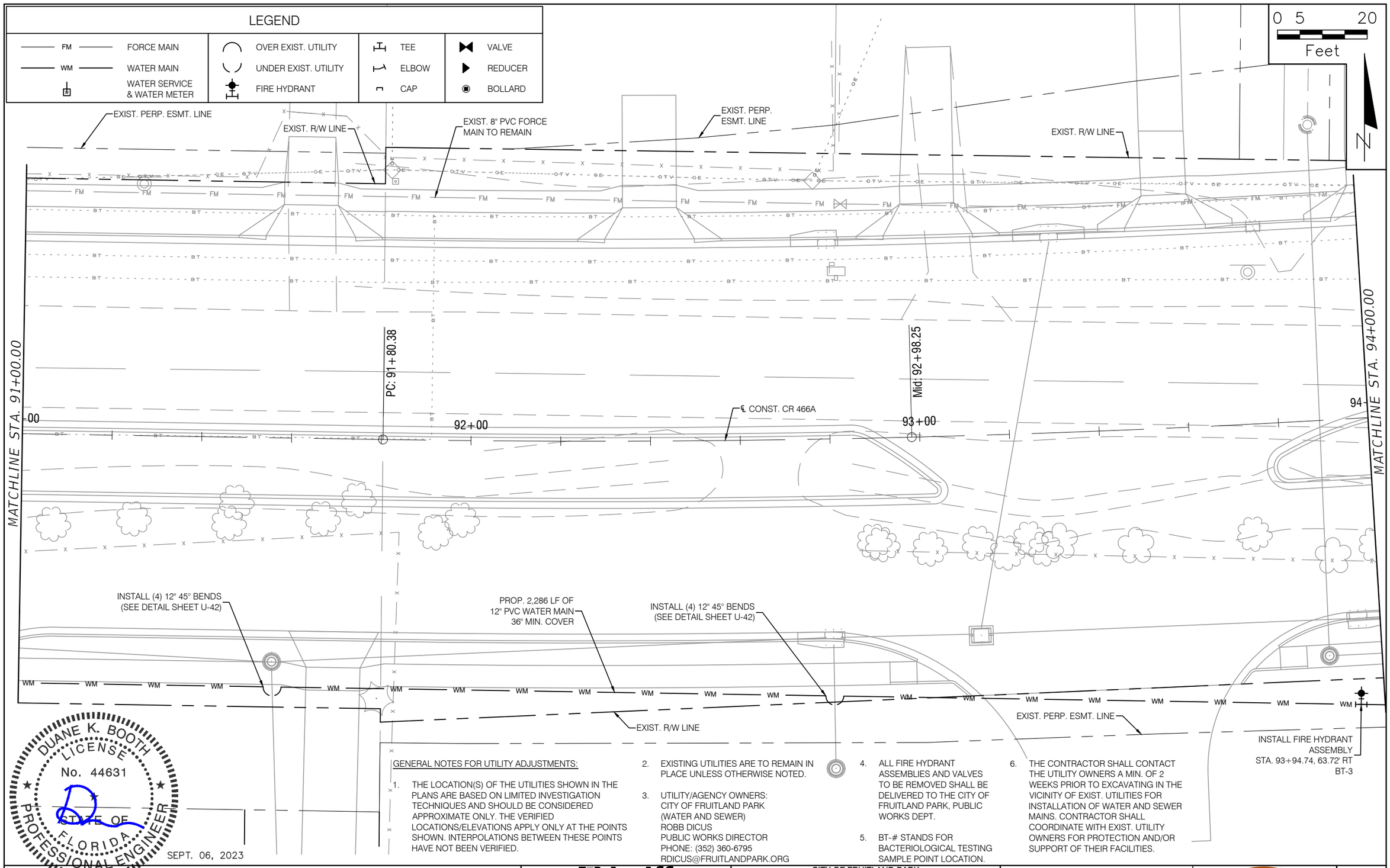
ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY PLAN SHEET
STA. 88+00.00
- 91+00.00

CITY OF FRUITLAND PARK THE FRIENDLY CITY

SHEET NO.
U-24

ahl5134 Aug 29, 2023 - 3:51PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B BASE.dwg



DUANE K. BOOTH LICENSE No. 44631 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEPT. 06, 2023

GENERAL NOTES FOR UTILITY ADJUSTMENTS:

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   (WATER AND SEWER)
   ROBB DICUS
   PUBLIC WORKS DIRECTOR
   PHONE: (352) 360-6795
   RDICUS@FRUITLANDPARK.ORG
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5. BT-# STANDS FOR BACTERIOLOGICAL TESTING SAMPLE POINT LOCATION.
6. THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS A MIN. OF 2 WEEKS PRIOR TO EXCAVATING IN THE VICINITY OF EXIST. UTILITIES FOR INSTALLATION OF WATER AND SEWER MAINS. CONTRACTOR SHALL COORDINATE WITH EXIST. UTILITY OWNERS FOR PROTECTION AND/OR SUPPORT OF THEIR FACILITIES.

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CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY PLAN SHEET
STA. 91+00.00
- 94+00.00

CITY OF FRUITLAND PARK THE FRIENDLY CITY

SHEET NO.
U-25

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LEGEND

FM	FORCE MAIN	TEE	
WM	WATER MAIN	ELBOW	
	WATER SERVICE & WATER METER	CAP	
	OVER EXIST. UTILITY	VALVE	
	UNDER EXIST. UTILITY	REDUCER	
	FIRE HYDRANT	BOLLARD	

GENERAL NOTES FOR UTILITY ADJUSTMENTS:

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0 5 20
Feet

N

EXIST. PERP. ESMT. LINE
EXIST. R/W LINE
EXIST. R/W LINE
EXIST. 8" PVC FORCE MAIN TO REMAIN
MATCHLINE STA. 94+00.00
PRC: 94+16.11
95+00
Mid: 95+30.99
℄ CONST. CR 466A
96+00
PT: 96+45.87
97
MATCHLINE STA. 97+00.00
PROP. 2,286 LF OF 12" PVC WATER MAIN 36" MIN. COVER
EXIST. R/W LINE
EXIST. R/W LINE
INSTALL (4) 12" 45° BENDS (SEE DETAIL SHEET U-42)
INSTALL 12" 11.25° BEND STA. 96+13.74, 43.32' RT
PROP. R/W LINE
INSTALL 12" 11.25° BEND STA. 94+18.81, 65.65' RT
EXIST. PERP. ESMT. LINE

DUANE K. BOOTH
LICENSE
No. 44631
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SEPT. 06, 2023

REVISIONS			
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halff
DUANE K. BOOTH, P.E.
P.E. LICENSE NUMBER 44631
902 NORTH SINCLAIR AVE.
TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY PLAN SHEET
STA. 94+00.00 - 97+00.00

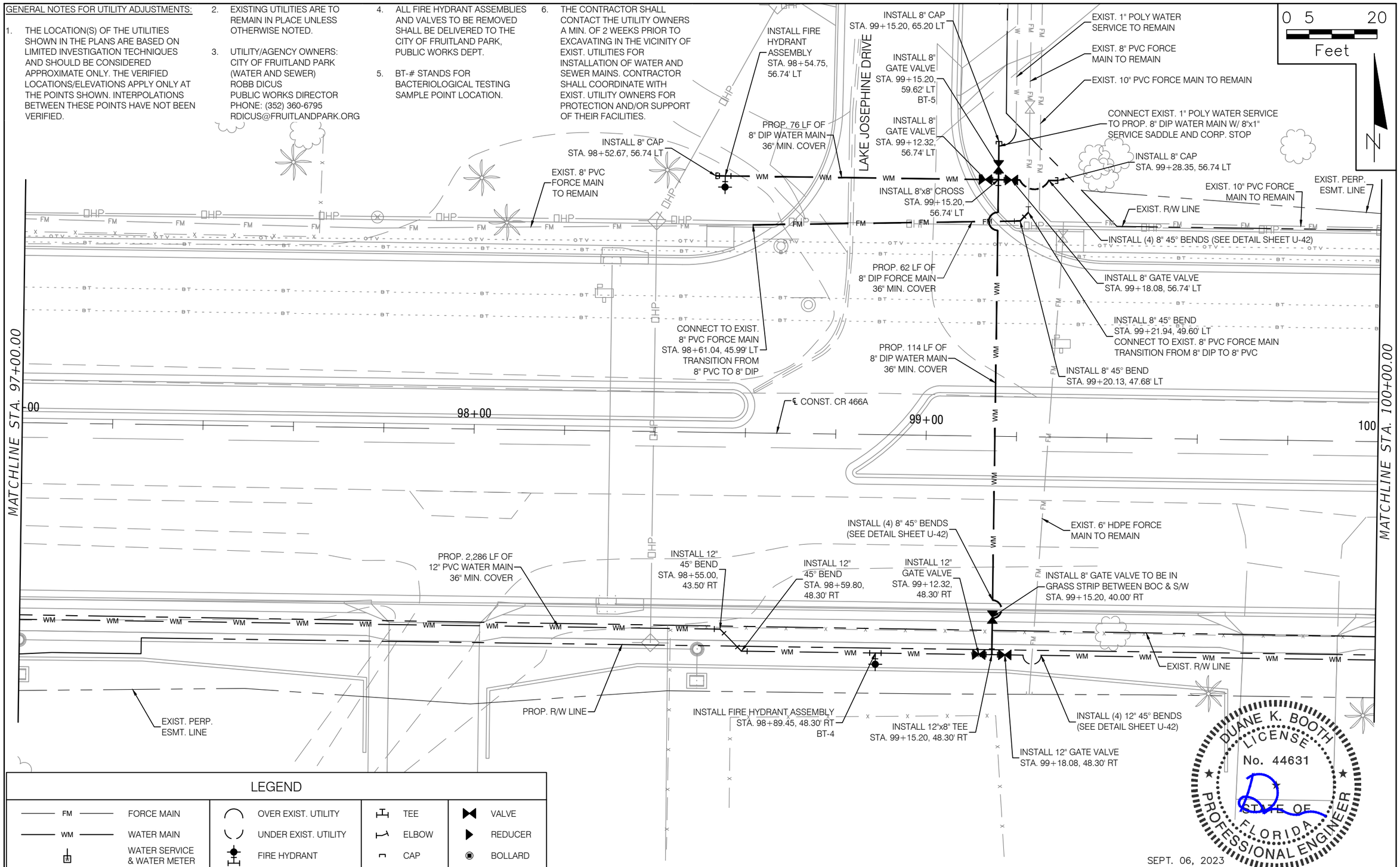
CITY OF FRUITLAND PARK
THE FRIENDLY CITY

SHEET NO.
U-26

ah5134 Aug 29, 2023 - 3:51PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B BASE.dwg

GENERAL NOTES FOR UTILITY ADJUSTMENTS:

1. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
2. EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
3. UTILITY/AGENCY OWNERS:
   CITY OF FRUITLAND PARK
   (WATER AND SEWER)
   ROBB DICUS
   PUBLIC WORKS DIRECTOR
   PHONE: (352) 360-6795
   RDICUS@FRUITLANDPARK.ORG
4. ALL FIRE HYDRANT ASSEMBLIES AND VALVES TO BE REMOVED SHALL BE DELIVERED TO THE CITY OF FRUITLAND PARK, PUBLIC WORKS DEPT.
5. BT-# STANDS FOR BACTERIOLOGICAL TESTING SAMPLE POINT LOCATION.
6. THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS A MIN. OF 2 WEEKS PRIOR TO EXCAVATING IN THE VICINITY OF EXIST. UTILITIES FOR INSTALLATION OF WATER AND SEWER MAINS. CONTRACTOR SHALL COORDINATE WITH EXIST. UTILITY OWNERS FOR PROTECTION AND/OR SUPPORT OF THEIR FACILITIES.



LEGEND

FM — FORCE MAIN	OVER EXIST. UTILITY	TEE	VALVE
WM — WATER MAIN	UNDER EXIST. UTILITY	ELBOW	REDUCER
WATER SERVICE & WATER METER	FIRE HYDRANT	CAP	BOLLARD

DUANE K. BOOTH LICENSE No. 44631 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEPT. 06, 2023

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CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY PLAN SHEET
STA. 97+00.00
- 100+00.00

CITY OF FRUITLAND PARK THE FRIENDLY CITY

SHEET NO. U-27

ahl5134 Aug 29, 2023 - 3:51PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B BASE.dwg

LEGEND

FM — FORCE MAIN	OVER EXIST. UTILITY	TEE	VALVE
WM — WATER MAIN	UNDER EXIST. UTILITY	ELBOW	REDUCER
WATER SERVICE & WATER METER	FIRE HYDRANT	CAP	BOLLARD

0 5 20
Feet

N

MATCHLINE STA. 100+00.00

100+00

101+00

℄ CONST. CR 466A

102+00

103

MATCHLINE STA. 103+00.00

EXIST. PERP. ESMT. LINE

EXIST. 10" PVC FORCE MAIN TO REMAIN

INSTALL 10"x8" TEE
STA. 102+14.30, 45.57' LT
CONNECT TO EXIST.
10" PVC FORCE MAIN

EXIST. R/W LINE

INSTALL 8" PLUG VALVE TO BE IN GRASS STRIP BETWEEN BOC & S/W
STA. 102+14.18, 40.00' LT

PROP. 98 LF OF
8" DIP FORCE MAIN
36" MIN. COVER

PROP. 2,286 LF OF
12" PVC WATER MAIN
36" MIN. COVER

INSTALL FIRE HYDRANT ASSEMBLY
STA. 101+05.81, 48.30' RT

INSTALL (4) 8" 45° BENDS
TO INSTALL UNDER
EXIST. STORM

EXIST. R/W LINE

EXIST. PERP. ESMT. LINE

PROP. R/W LINE

INSTALL 8" CAP
STA. 102+12.21, 52.30' RT

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SEPT. 06, 2023

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CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

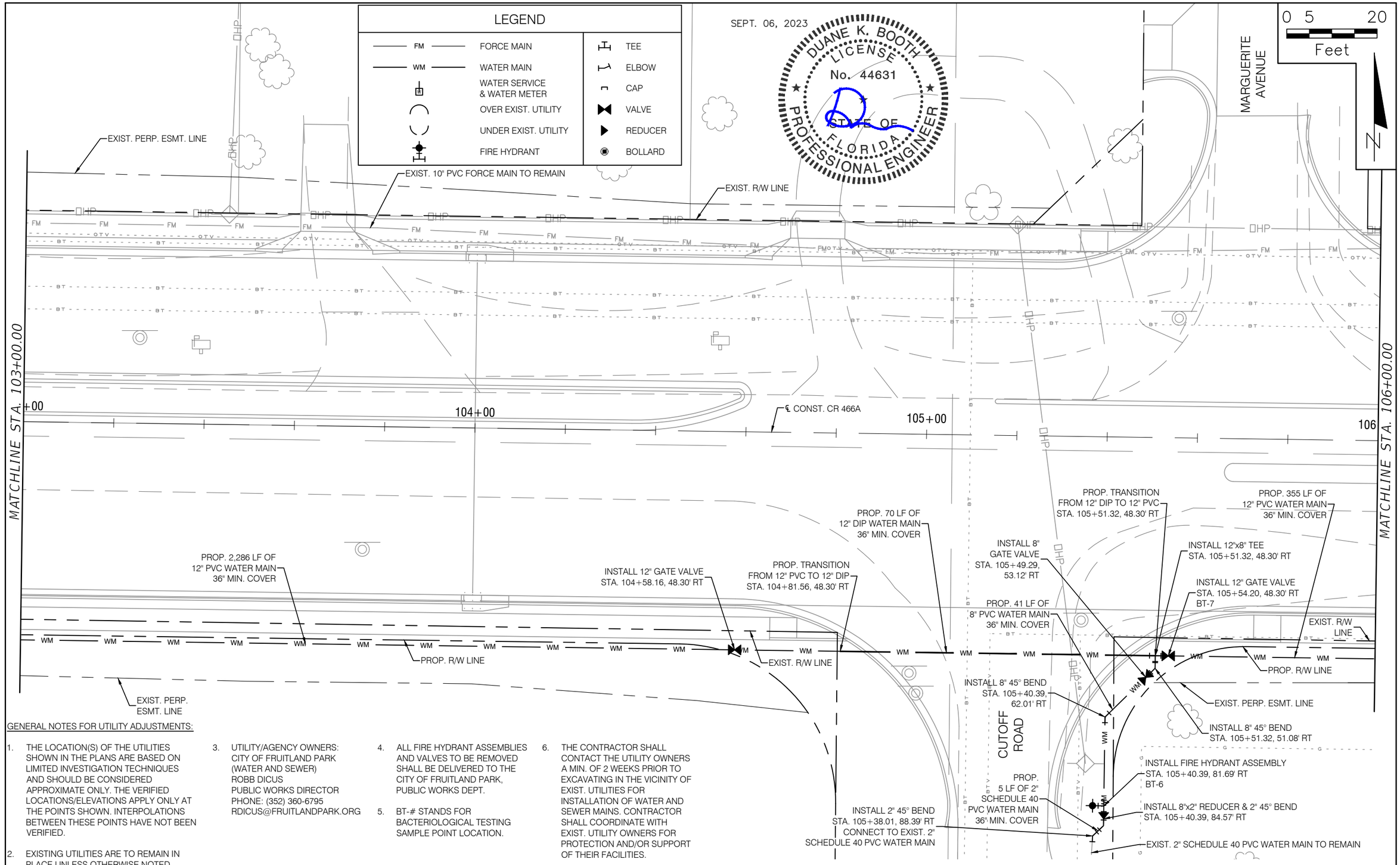
ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY PLAN SHEET
STA. 100+00.00
- 103+00.00

CITY OF FRUITLAND PARK THE FRIENDLY CITY

SHEET NO.
U-28

ah5134 Aug 29, 2023 - 3:51PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B BASE.dwg



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CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY PLAN SHEET
STA. 103+00.00
- 106+00.00

CITY OF FRUITLAND PARK THE FRIENDLY CITY

SHEET NO.
U-29

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LEGEND

FM	FORCE MAIN	TEE	
WM	WATER MAIN	ELBOW	
W	WATER SERVICE & WATER METER	CAP	
	OVER EXIST. UTILITY	VALVE	
	UNDER EXIST. UTILITY	REDUCER	
	FIRE HYDRANT	BOLLARD	

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0 5 20
Feet

N

EXIST. PERP. ESMT. LINE

EXIST. 10" PVC FORCE MAIN TO REMAIN

EXIST. R/W LINE

℄ CONST. CR 466A

MATCHLINE STA. 106+00.00

106+00

107+00

108+00

109

MATCHLINE STA. 109+00.00

PROP. 355 LF OF 12" PVC WATER MAIN 36" MIN. COVER

PROP. R/W LINE

EXIST. R/W LINE

EXIST. PERP. ESMT. LINE

INSTALL (3) 1" COMMERCIAL WATER METERS W/ BACKFLOW PREVENTERS STA. 106+86.36, 50.30' RT CONNECT PROP. (3) 1" WATER METERS TO PROP. 12" PVC WATER MAIN W/ 12"x1" SERVICE SADDLE AND CORP. STOP SEE DETAIL SHEET U-48

INSTALL (4) 1" COMMERCIAL WATER METERS W/ BACKFLOW PREVENTERS STA. 107+98.74, 50.30' RT CONNECT PROP. (4) 1" WATER METERS TO PROP. 12" PVC WATER MAIN W/ 12"x1" SERVICE SADDLE AND CORP. STOP SEE DETAIL SHEET U-48

DUANE K. BOOTH LICENSE No. 44631 STATE OF FLORIDA PROFESSIONAL ENGINEER

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CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY PLAN SHEET
STA. 106+00.00
- 109+00.00

CITY OF FRUITLAND PARK
THE FRIENDLY CITY

SHEET NO.
U-30

ah5134 Aug 29, 2023 - 3:51PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B BASE.dwg

LEGEND

FM	FORCE MAIN	TEE	
WM	WATER MAIN	ELBOW	
W	WATER SERVICE & WATER METER	CAP	
	OVER EXIST. UTILITY	VALVE	
	UNDER EXIST. UTILITY	REDUCER	
	FIRE HYDRANT	BOLLARD	

SEPT. 06, 2023

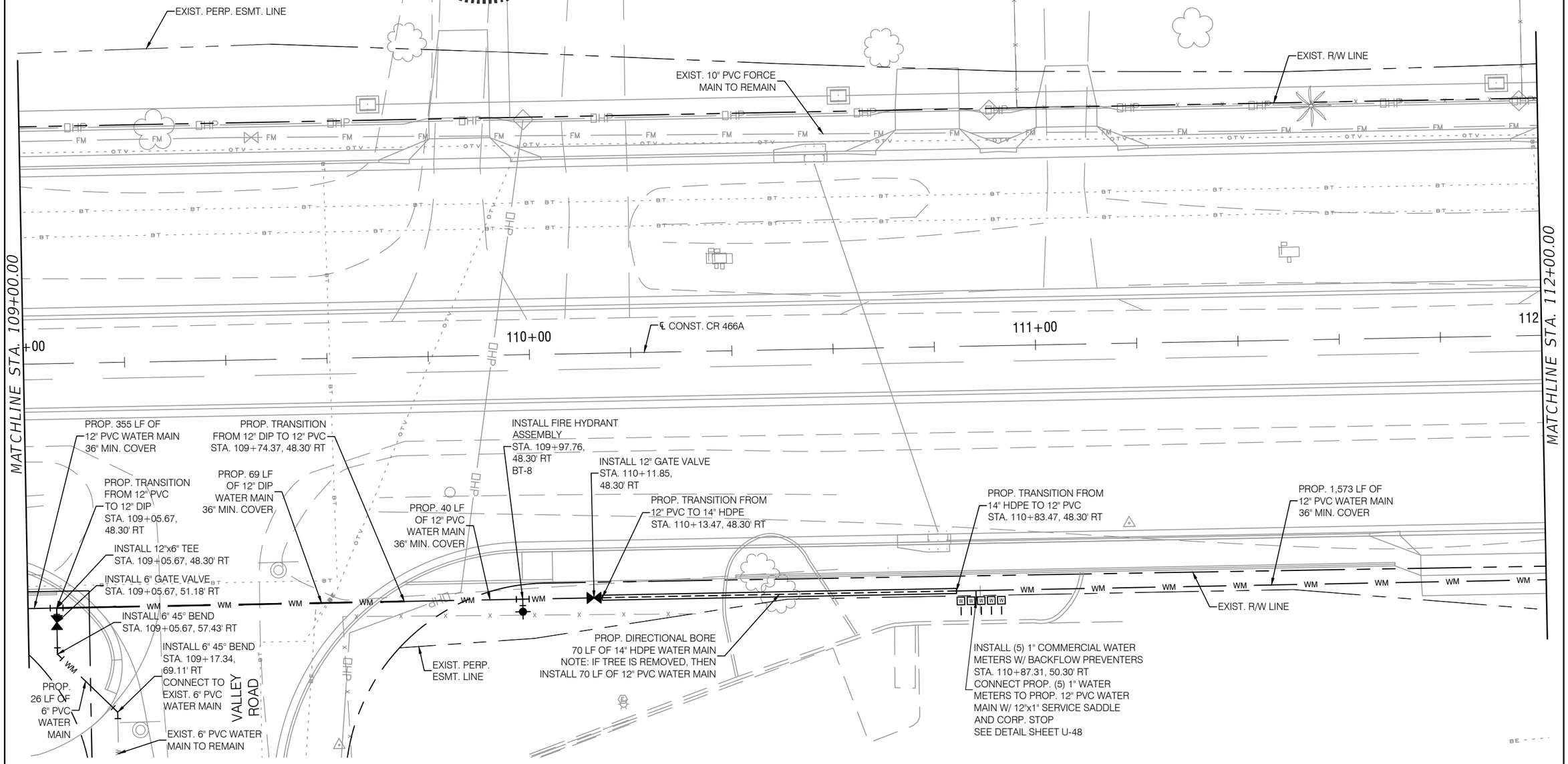
DUANE K. BOOTH LICENSE No. 44631 STATE OF FLORIDA PROFESSIONAL ENGINEER

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0 5 20 Feet

N



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CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY PLAN SHEET
STA. 109+00.00
- 112+00.00

CITY OF FRUITLAND PARK THE FRIENDLY CITY

SHEET NO. U-31

ahl5134 Aug 29, 2023 - 3:51PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B BASE.dwg

LEGEND

FM — FORCE MAIN	TEE
WM — WATER MAIN	ELBOW
WATER SERVICE & WATER METER	CAP
OVER EXIST. UTILITY	VALVE
UNDER EXIST. UTILITY	REDUCER
FIRE HYDRANT	BOLLARD

GENERAL NOTES FOR UTILITY ADJUSTMENTS:

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SEPT. 06, 2023

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0 5 20 Feet

N

MATCHLINE STA. 112+00.00

MATCHLINE STA. 115+00.00

EXIST. PERP. ESMT. LINE

EXIST. R/W LINE

EXIST. 10" PVC FORCE MAIN TO REMAIN

+00

113+00

℄ CONST. CR 466A

114+00

115

PROP. 1,573 LF OF 12" PVC WATER MAIN 36" MIN. COVER

INSTALL FIRE HYDRANT ASSEMBLY STA. 113+35.26, 48.30' RT

INSTALL (4) 12" 45° BENDS (SEE DETAIL SHEET U-42)

EXIST. R/W LINE

EXIST. PERP. ESMT. LINE

REVISIONS			
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CITY OF FRUITLAND PARK
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PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY PLAN SHEET
STA. 112+00.00
- 115+00.00

CITY OF FRUITLAND PARK THE FRIENDLY CITY

SHEET NO. U-32

ah5134 Aug 29, 2023 - 3:51PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B BASE.dwg

LEGEND

FM	FORCE MAIN	TEE	
WM	WATER MAIN	ELBOW	
	WATER SERVICE & WATER METER	CAP	
	OVER EXIST. UTILITY	VALVE	
	UNDER EXIST. UTILITY	REDUCER	
	FIRE HYDRANT	BOLLARD	

SEPT. 06, 2023

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0 5 20 Feet

N

EXIST. PERP. ESMT. LINE

INSTALL 10"x4" TEE
STA. 115+31.72, 42.65' LT
CONNECT TO EXIST.
10" PVC FORCE MAIN

EXIST. R/W LINE

EXIST. 10" PVC FORCE MAIN TO REMAIN

INSTALL 4" PLUG VALVE TO BE IN GRASS STRIP BETWEEN BOC & S/W
STA. 115+31.74, 40.00' LT

PROP. 95 LF OF
4" DIP FORCE MAIN
36" MIN. COVER

MATCHLINE STA. 115+00.00

115+00

PC: 116+31.40

℄ CONST. CR 466A

116+00

Mid: 117+27.83

117+00

118

MATCHLINE STA. 118+00.00

INSTALL (1) SINGLE & (1) DOUBLE RESIDENTIAL WATER SERVICES,
(3) 1" WATER METERS W/ METER BOXES, & (2) BOLLARDS
STA. 116+11.45, 51.30' RT
CONNECT PROP. WATER METERS TO PROP. 12" PVC WATER MAIN
W/ 12"x1" (SINGLE) & 12"x2" (DOUBLE) SADDLES AND CORP. STOPS
SEE DETAIL SHEET U-46

INSTALL 12" 22.5° BEND
STA. 116+94.03, 52.88' RT

INSTALL 12" 22.5° BEND
STA. 116+86.56, 49.79' RT

INSTALL 12" 22.5° BEND
STA. 117+04.39, 52.94' RT

INSTALL 12" 22.5° BEND
STA. 117+11.90, 49.93' RT

INSTALL (4) 4" 45° BENDS
TO INSTALL UNDER
EXIST. STORM

PROP. 1,573 LF OF
12" PVC WATER MAIN
36" MIN. COVER

INSTALL 4" CAP
STA. 115+32.34, 52.30' RT

INSTALL (1) SINGLE & (1) DOUBLE
RESIDENTIAL WATER SERVICES,
(3) 1" WATER METERS W/ METER
BOXES, & (2) BOLLARDS
STA. 115+59.92, 51.30' RT
CONNECT PROP. WATER METERS
TO PROP. 12" PVC WATER MAIN
W/ 12"x1" (SINGLE) & 12"x2" (DOUBLE)
SADDLES AND CORP. STOPS
SEE DETAIL SHEET U-46

EXIST. R/W LINE

EXIST. PERP. ESMT. LINE

INSTALL (1) SINGLE & (1) DOUBLE RESIDENTIAL WATER SERVICES,
(3) 1" WATER METERS W/ METER BOXES, & (2) BOLLARDS
STA. 117+19.35, 57.76' RT
CONNECT PROP. WATER METERS TO PROP. 12" PVC WATER MAIN
W/ 12"x1" (SINGLE) & 12"x2" (DOUBLE) SADDLES AND CORP. STOPS
SEE DETAIL SHEET U-46

EXIST. R/W LINE

INSTALL (1) SINGLE & (1) DOUBLE RESIDENTIAL
WATER SERVICES, (3) 1" WATER METERS W/
METER BOXES, & (2) BOLLARDS
STA. 117+77.10, 32.63' RT
CONNECT PROP. WATER METERS TO PROP.
12" PVC WATER MAIN W/ 12"x1" (SINGLE) &
12"x2" (DOUBLE) SADDLES AND CORP. STOPS
SEE DETAIL SHEET U-46

INSTALL FIRE
HYDRANT ASSEMBLY
STA. 117+88.12, 48.86' RT
BT-9

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PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY PLAN SHEET
STA. 115+00.00 - 118+00.00

CITY OF FRUITLAND PARK THE FRIENDLY CITY

SHEET NO. U-33

ah5134 Aug 29, 2023 - 3:51PM A:\43000s\43866\101\LDCIVIL\043866.101 CR 466A Phase 3B BASE.dwg

LEGEND

FM	FORCE MAIN	TEE	
WM	WATER MAIN	ELBOW	
	WATER SERVICE & WATER METER	CAP	
	OVER EXIST. UTILITY	VALVE	
	UNDER EXIST. UTILITY	REDUCER	
	FIRE HYDRANT	BOLLARD	

0 5 20
Feet

N

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SPRING LAKE ROAD

MATCHLINE STA. 118+00.00

MATCHLINE STA. 121+00.00

118+00

119+00

120+00

121

PRC: 118+24.26

Mid: 119+19.11

PT: 120+13.95

EXIST. 10" PVC FORCE MAIN TO REMAIN

EXIST. 12" HDPE FORCE MAIN TO REMAIN

PROP. R/W LINE

INSTALL 8" CAP STA. 119+43.04, 53.22' LT

INSTALL 8" GATE VALVE STA. 119+45.22, 53.33' LT BT-11

INSTALL 8"x8" TEE STA. 119+48.20, 53.49' LT

INSTALL 8" GATE VALVE STA. 119+51.18, 53.63' LT

INSTALL 8" 11.25° BEND STA. 120+31.77, 54.13' LT

INSTALL 8" 11.25° BEND STA. 120+24.37, 55.53' LT

PROP. 301 LF OF 8" PVC WATER MAIN 36" MIN. COVER

EXIST. PERP. ESMT. LINE

EXIST. R/W LINE

INSTALL 8" GATE VALVE STA. 119+48.34, 49.24' LT

EXIST. 6" HDPE FORCE MAIN TO REMAIN

PROP. 102 LF OF 8" DIP WATER MAIN 36" MIN. COVER

℄ CONST. CR 466A

CONNECT TO EXIST. 6" HDPE FORCE MAIN TRANSITION FROM 6" HDPE TO 4" DIP STA. 118+54.81, 8.40' RT

INSTALL 12" GATE VALVE STA. 118+08.78, 48.81' RT

PROP. 42 LF OF 4" DIP FORCE MAIN 36" MIN. COVER

EXIST. R/W LINE

INSTALL FIRE HYDRANT ASSEMBLY STA. 120+00.00, 48.37' RT

INSTALL 8" GATE VALVE TO BE IN GRASS STRIP BETWEEN BOC & SW STA. 119+50.95, 40.00' RT

EXIST. PERP. ESMT. LINE

PROP. R/W LINE

INSTALL 12" GATE VALVE STA. 119+53.98, 48.31' RT BT-10

INSTALL 4" CAP STA. 118+58.97, 49.55' RT

PROP. 1,573 LF OF 12" PVC WATER MAIN 36" MIN. COVER

INSTALL 12"x8" TEE STA. 119+51.18, 48.33' RT

DUANE K. BOOTH LICENSE No. 44631 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEPT. 06, 2023

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

halff
DUANE K. BOOTH, P.E.
P.E. LICENSE NUMBER 44631
902 NORTH SINCLAIR AVE.
TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY PLAN SHEET
STA. 118+00.00
- 121+00.00

CITY OF FRUITLAND PARK
THE FRIENDLY CITY

SHEET NO.
U-34

ah5134 Aug 29, 2023 - 3:51PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B BASE.dwg

LEGEND

FM — FORCE MAIN	TEE
WM — WATER MAIN	ELBOW
WATER SERVICE & WATER METER	CAP
OVER EXIST. UTILITY	VALVE
UNDER EXIST. UTILITY	REDUCER
FIRE HYDRANT	BOLLARD

DUANE K. BOOTH LICENSE No. 44631 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEPT. 06, 2023

0 5 20 Feet

N

MATCHLINE STA. 121+00.00

MATCHLINE STA. 124+00.00

121+00

122+00

123+00

124

JANICE DRIVE

EXIST. PERP. ESMT. LINE

EXIST. R/W LINE

EXIST. 12" HDPE FORCE MAIN TO REMAIN

EXIST. PERP. ESMT. LINE

PROP. 301 LF OF 8" PVC WATER MAIN 36" MIN. COVER

INSTALL FIRE HYDRANT ASSEMBLY STA. 122+44.93, 53.32' LT

PROP. TRANSITION FROM 8" PVC TO 8" DIP STA. 122+44.93, 53.32' LT

CONNECT TO EXIST. 2" PVC WATER MAIN STA. 122+76.75, 93.41' LT

PROP. 10 LF OF 2" PVC WATER MAIN 36" MIN. COVER

EXIST. 2" PVC WATER MAIN TO REMAIN

INSTALL 8"x2" REDUCER STA. 122+76.83, 84.34' LT

INSTALL 8" 45° BEND STA. 122+76.86, 81.47' LT

PROP. 40 LF OF 8" PVC WATER MAIN 36" MIN. COVER

EXIST. R/W LINE

PROP. 55 LF OF 8" DIP WATER MAIN 36" MIN. COVER

INSTALL 8" 45° BEND STA. 122+99.15, 59.58' LT

INSTALL 8" GATE VALVE STA. 122+99.18, 56.70' LT

PROP. 370 LF OF 8" PVC WATER MAIN 36" MIN. COVER

EXIST. PERP. ESMT. LINE

INSTALL 8" GATE VALVE STA. 122+96.32, 53.80' LT

PROP. TRANSITION FROM 8" DIP TO 8" PVC STA. 122+99.20, 53.82' RT

INSTALL 8"x8" TEE STA. 122+99.20, 53.82' LT

INSTALL 8" 45° BEND STA. 121+08.55, 54.84' LT

INSTALL 8" 45° BEND STA. 121+11.35, 52.09' LT

℄ CONST. CR 466A

EXIST. R/W LINE

PROP. 1,573 LF OF 12" PVC WATER MAIN 36" MIN. COVER

INSTALL FIRE HYDRANT ASSEMBLY STA. 123+29.46, 48.30' RT

PROP. R/W LINE

CONNECT PROP. SINGLE WATER METER TO PROP. 12" PVC WATER MAIN W/ 12"x2" SERVICE SADDLE AND CORP. STOP

INSTALL 1" WATER METER STA. 121+20.29, 56.26' RT INSTALL (2) 2"x1" REDUCERS

EXIST. PERP. ESMT. LINE

EXIST. 2" SERVICE TO REMAIN

GENERAL NOTES FOR UTILITY ADJUSTMENTS:

1. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
2. EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
3. UTILITY/AGENCY OWNERS:
   CITY OF FRUITLAND PARK
   (WATER AND SEWER)
   ROBB DICUS
   PUBLIC WORKS DIRECTOR
   PHONE: (352) 360-6795
   RDICUS@FRUITLANDPARK.ORG
4. ALL FIRE HYDRANT ASSEMBLIES AND VALVES TO BE REMOVED SHALL BE DELIVERED TO THE CITY OF FRUITLAND PARK, PUBLIC WORKS DEPT.
5. BT-# STANDS FOR BACTERIOLOGICAL TESTING SAMPLE POINT LOCATION.
6. THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS A MIN. OF 2 WEEKS PRIOR TO EXCAVATING IN THE VICINITY OF EXIST. UTILITIES FOR INSTALLATION OF WATER AND SEWER MAINS. CONTRACTOR SHALL COORDINATE WITH EXIST. UTILITY OWNERS FOR PROTECTION AND/OR SUPPORT OF THEIR FACILITIES.

REVISIONS			
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halff
DUANE K. BOOTH, P.E.
P.E. LICENSE NUMBER 44631
902 NORTH SINCLAIR AVE.
TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY PLAN SHEET
STA. 121+00.00 - 124+00.00

CITY OF FRUITLAND PARK THE FRIENDLY CITY

SHEET NO. U-35

ah5134 Aug 29, 2023 - 3:51PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B BASE.dwg

LEGEND

FM — FORCE MAIN	OVER EXIST. UTILITY	TEE	VALVE
WM — WATER MAIN	UNDER EXIST. UTILITY	ELBOW	REDUCER
WATER SERVICE & WATER METER	FIRE HYDRANT	CAP	BOLLARD

DUANE K. BOOTH LICENSE No. 44631 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEPT. 06, 2023

0 5 20 Feet

N

EXIST. 1" WATER METER TO REMAIN

EXIST. 1" WATER METER TO REMAIN

CONNECT EXIST. SINGLE WATER METER TO PROP. 8" PVC WATER MAIN W/ 8"x1" SERVICE SADDLE AND CORP. STOP

EXIST. 12" HDPE FORCE MAIN TO REMAIN

EXIST. R/W LINE

INSTALL FIRE HYDRANT ASSEMBLY STA. 125+50.00, 56.14' LT

EXIST. PERP. ESMT. LINE

CONNECT EXIST. SINGLE WATER METER TO PROP. 8" PVC WATER MAIN W/ 8"x1" SERVICE SADDLE AND CORP. STOP

EXIST. 1" WATER METER TO REMAIN

CONNECT EXIST. SINGLE WATER METER TO PROP. 8" PVC WATER MAIN W/ 8"x1" SERVICE SADDLE AND CORP. STOP

INSTALL 8" GATE VALVE STA. 126+54.47, 54.22' LT

INSTALL 8" GATE VALVE STA. 126+51.56, 57.07' LT

INSTALL 8"x8" TEE STA. 126+54.44, 57.10' LT

INSTALL 8" GATE VALVE STA. 126+57.32, 57.13' LT BT-13

INSTALL 8"x4" REDUCER STA. 126+68.84, 57.23' LT

PROP. 61 LF OF 4" PVC WATER MAIN 36" MIN. COVER

INSTALL (4) 8" 45° BENDS (SEE DETAIL SHEET U-42)

CONNECT EXIST. SINGLE WATER METER TO PROP. 8" PVC WATER MAIN W/ 8"x1" SERVICE SADDLE AND CORP. STOP

PROP. 370 LF OF 8" PVC WATER MAIN 36" MIN. COVER

PROP. 106 LF OF 8" DIP WATER MAIN 36" MIN. COVER

MATCHLINE STA. 124+00.00

MATCHLINE STA. 127+00.00

125+00

126+00

127

℄ CONST. CR 466A

EXIST. R/W LINE

INSTALL (4) 8" 45° BENDS (SEE DETAIL SHEET U-42)

INSTALL 12"x8" TEE STA. 126+55.41, 48.30' RT CONNECT TO EXIST. 12" PVC WATER MAIN

PROP. 1,573 LF OF 12" PVC WATER MAIN 36" MIN. COVER

INSTALL 8" GATE VALVE STA. 126+55.39, 45.42' RT

INSTALL 12" GATE VALVE STA. 126+51.30, 48.30' RT BT-12

EXIST. 12" GATE VALVE TO REMAIN

PROP. R/W LINE

INSTALL TEMP. JUMPER CONNECTION

EXIST. 12" PVC WATER MAIN TO REMAIN

EXIST. PERP. ESMT. LINE

EXIST. FIRE HYDRANT ASSEMBLY TO REMAIN

GENERAL NOTES FOR UTILITY ADJUSTMENTS:

1. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
2. EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
3. UTILITY/AGENCY OWNERS:
   CITY OF FRUITLAND PARK (WATER AND SEWER)
   ROBB DICUS
   PUBLIC WORKS DIRECTOR
   PHONE: (352) 360-6795
   RDICUS@FRUITLANDPARK.ORG
4. ALL FIRE HYDRANT ASSEMBLIES AND VALVES TO BE REMOVED SHALL BE DELIVERED TO THE CITY OF FRUITLAND PARK, PUBLIC WORKS DEPT.
5. BT-# STANDS FOR BACTERIOLOGICAL TESTING SAMPLE POINT LOCATION.
6. THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS A MIN. OF 2 WEEKS PRIOR TO EXCAVATING IN THE VICINITY OF EXIST. UTILITIES FOR INSTALLATION OF WATER AND SEWER MAINS. CONTRACTOR SHALL COORDINATE WITH EXIST. UTILITY OWNERS FOR PROTECTION AND/OR SUPPORT OF THEIR FACILITIES.

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P.E. LICENSE NUMBER 44631
902 NORTH SINCLAIR AVE.
TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY PLAN SHEET
STA. 124+00.00
- 127+00.00

CITY OF FRUITLAND PARK THE FRIENDLY CITY

SHEET NO. U-36

LEGEND

FM	FORCE MAIN	TEE	
WM	WATER MAIN	ELBOW	
W	WATER SERVICE & WATER METER	CAP	
	OVER EXIST. UTILITY	VALVE	
	UNDER EXIST. UTILITY	REDUCER	
	FIRE HYDRANT	BOLLARD	

GENERAL NOTES FOR UTILITY ADJUSTMENTS:

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0 5 20
Feet

N

4" PVC WATER MAIN
36" MIN. COVER

EXIST. PERP.
ESMT. LINE

INSTALL 4" CAP & 4" BLOWOFF VALVE
STA. 127+29.09, 57.79 LT
BT-14

EXIST. R/W LINE

EXIST. 12" HDPE FORCE
MAIN TO REMAIN

EXIST. 1"
WATER METER
TO REMAIN

EXIST. 10" PVC FORCE
MAIN TO REMAIN

INSTALL 10" 45° BEND
STA. 128+62.18, 40.00' LT
CONNECT TO EXIST.
12" HDPE FORCE MAIN
TRANSITION FROM
12" HDPE TO 10" PVC

PROP. 36 LF OF
10" PVC FORCE MAIN
36" MIN. COVER

INSTALL 10" 45° BEND
STA. 128+65.69, 43.07' LT

INSTALL 10" 45° BEND
STA. 128+97.25, 41.09' LT
CONNECT TO EXIST.
10" PVC FORCE MAIN

MATCHLINE STA. 127+00.00

PC: 127+82.95

Mid: 128+97.01

MATCHLINE STA. 130+00.00

127+00

128+00

129+00

130

℄ CONST. CR 466A

EXIST. R/W LINE

PROP. R/W LINE

EXIST. 12" PVC WATER
MAIN TO REMAIN

EXIST. PERP. ESMT. LINE

EXIST. 1" SERVICE
& WATER METER
TO REMAIN

DUANE K. BOOTH
LICENSE
No. 44631
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

SEPT. 06, 2023

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CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

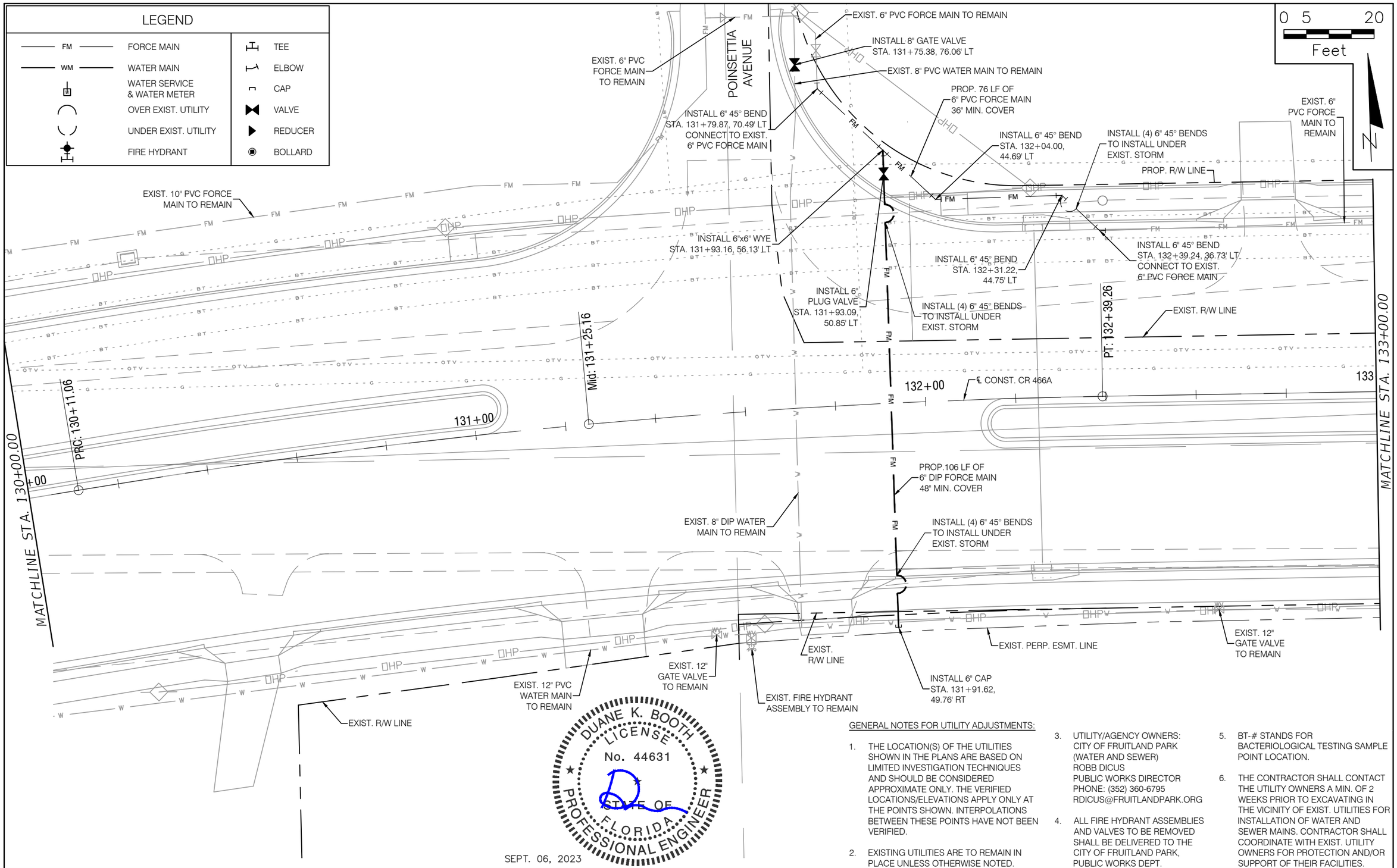
ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY PLAN SHEET
STA. 127+00.00
- 130+00.00

CITY OF FRUITLAND PARK
THE FRIENDLY CITY

SHEET NO.
U-37

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DUANE K. BOOTH LICENSE No. 44631 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEPT. 06, 2023

GENERAL NOTES FOR UTILITY ADJUSTMENTS:

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CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

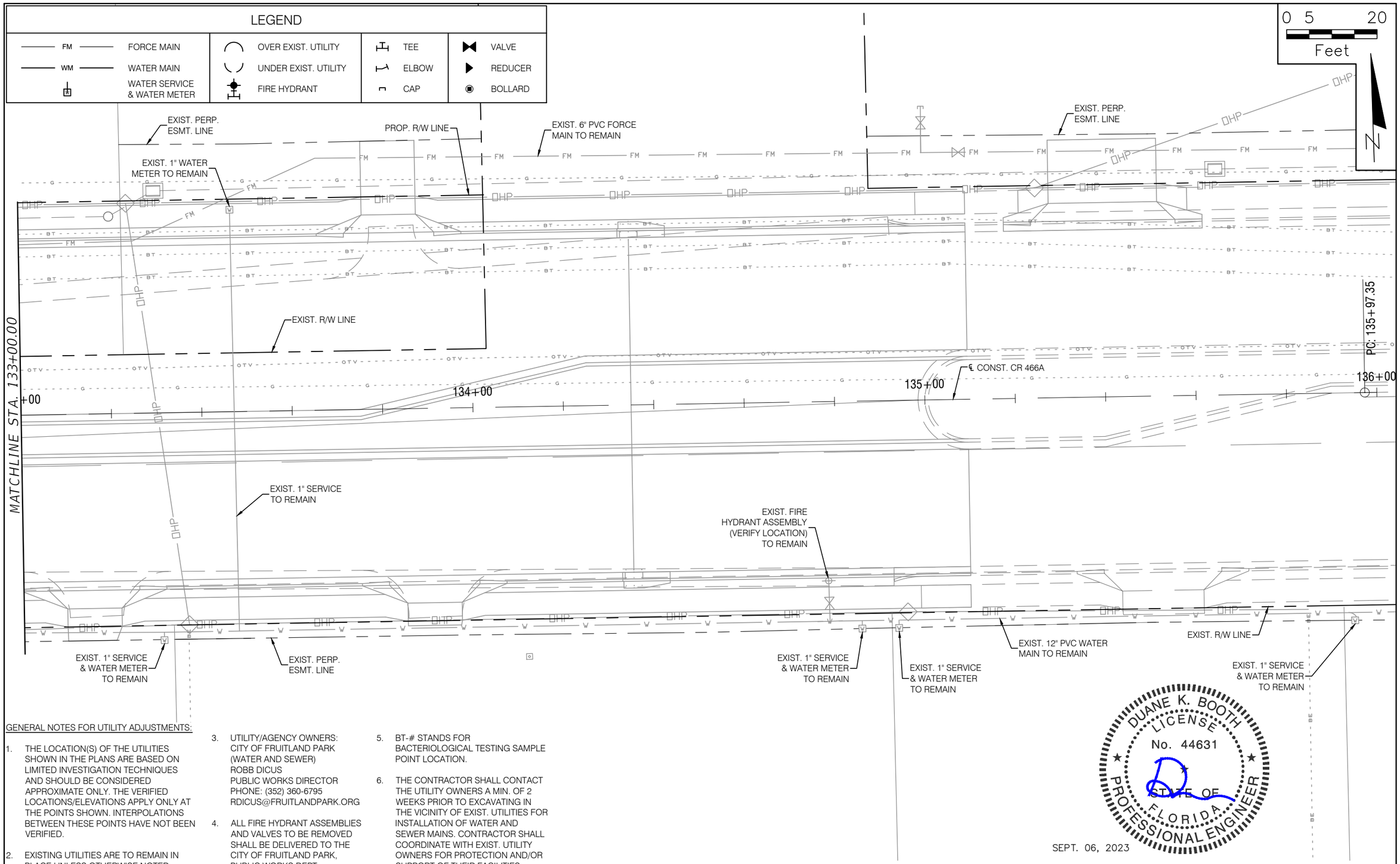
ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY PLAN SHEET
STA. 130+00.00
- 133+00.00

CITY OF FRUITLAND PARK THE FRIENDLY CITY

SHEET NO.
U-38

ah5134 Aug 29, 2023 - 3:51PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B BASE.dwg



GENERAL NOTES FOR UTILITY ADJUSTMENTS:

1. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
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DUANE K. BOOTH LICENSE No. 44631 STATE OF FLORIDA PROFESSIONAL ENGINEER

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CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

UTILITY PLAN SHEET
STA. 133+00.00
- 136+00.00

CITY OF FRUITLAND PARK THE FRIENDLY CITY

SHEET NO.
U-39

ah5134 Aug 29, 2023 - 3:51PM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B BASE.dwg

GENERAL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO FDOT AND THE CITY OF FRUITLAND PARK STANDARDS.
2. PROJECT BASELINE STATIONING SHOWN IS APPROXIMATE. THE CONTRACTOR SHALL LOCATE ALL PORTIONS OF THE WORK USING ALL INFORMATION PROVIDED HEREIN AND SHALL MAINTAIN RECORDS OF ALL LOCATIONS PER THE CONTRACT SPECIFICATIONS.
3. STATIONING IS PROVIDED FOR THE REFERENCE IN HORIZONTAL PLANE ONLY, AND DOES NOT REFLECT VERTICAL ALIGNMENT OF PIPE.
4. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN OBTAINED FROM RESPECTIVE UTILITY OWNER USING THE LATEST INFORMATION AVAILABLE. HOWEVER, THESE LOCATIONS, AS SHOWN ON THE PLANS, ARE NOT CONSIDERED TO BE ALL INCLUSIVE. THE ENGINEER HAS ATTEMPTED TO SHOW AS MUCH AS POSSIBLE ALL MAIN ELECTRICAL AND TELEPHONE UNDERGROUND CABLES AND DUCTS. THE ENGINEER HAS NOT SHOWN ELECTRICAL AND TELEPHONE SERVICE CONNECTIONS WHICH MAY EXIST WITHIN THE PRIVATE RIGHTS-OF-WAY WITHIN THIS PROJECT. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL UNDERGROUND FACILITIES WITH A FIELD REPRESENTATIVE OF EACH RESPECTIVE UTILITY.
5. THE CONTRACTOR PRIOR TO EXCAVATING IN THE VICINITY OF A GAS PIPELINE SHALL NOTIFY THE GAS UTILITY OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF FLORIDA STATUTES, PROTECTION OF UNDERGROUND PIPELINES, F.S. 553.851, CH. 77-143.
6. THE CONTRACTOR SHALL INSURE ALL NECESSARY PERMITS ARE IN HAND BEFORE COMMENCEMENT OF CONSTRUCTION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SATISFYING ALL REQUIREMENTS OF REGULATORY AGENCY PERMITS WITH REGARDS TO CONSTRUCTION ACTIVITIES AND CONDITIONS STATED THEREIN. ALL WORK WITHIN THE CITY OF FRUITLAND PARK & F.D.O.T. RIGHT-OF-WAYS SHALL CONFORM WITH ALL REQUIREMENTS AND SPECIAL CONDITIONS OF THE APPROVED CITY OF FRUITLAND PARK AND F.D.O.T. UTILITY PERMITS.
8. D.I.P. LOCATED LESS THAN 10 FEET FROM A GAS MAIN SHALL BE WRAPPED IN POLYETHYLENE.
9. ALL PROPOSED MAINS SHALL HAVE A MINIMUM OF 36" COVER OVER TOP OF PIPE. COVER SHALL VARY TO PROVIDE UNIFORM GRADIENT OR SLOPE TO PIPE, UNLESS OTHERWISE NOTED.
10. WHERE A CONNECTION IS TO BE MADE IN THE FIELD TO AN EXISTING PIPE, THE CONTRACTOR WILL EXCAVATE THE AREA TO VERIFY THE TYPE OF PIPE AND THE PIPE SIZE, AND OBTAIN THE OWNER'S APPROVAL OF THE PROPOSED METHOD OF CONNECTION PRIOR TO ORDERING AND INSTALLING MATERIALS.
11. ALL WATER OR SEWER SERVICE CONNECTIONS, INTERRUPTIONS OR RELOCATION'S SHALL BE COORDINATED IN ADVANCE WITH FIELD REPRESENTATIVES OF THE CITY OF FRUITLAND PARK.
12. ALL BURIED PIPING SPECIFIED TO BE PRESSURE TESTED, EXCEPT FLANGED, WELDED, OR SCREWED PIPING, SHALL BE PROVIDED WITH RESTRAINING DEVICES AT ALL DIRECTION CHANGES, UNLESS OTHERWISE NOTED. SEE THRUST RESTRAINT SPECIFICATION DETAILS AND NOTES.
13. ALL AREAS WHERE LANDSCAPING, SOD, OR IRRIGATION HAS BEEN REMOVED OR DISTURBED BY CONTRACTOR'S OPERATIONS SHALL BE RESODDED, LANDSCAPED, OR REPAIRED WITH LIKE KIND.
14. ALL EXISTING PROPERTY, FENCING, DRIVEWAYS, PIPING, SIDEWALKS, SIGNS AND OTHER ITEMS SHALL BE RESTORED TO ORIGINAL LINE AND GRADE UNLESS APPROVED BY THE ENGINEER. ACCESS TO ADJOINING PROPERTY ALONG THE PROPOSED ROUTE SHALL BE MAINTAINED AT ALL TIMES.
15. IN THE EVENT THAT THE POTABLE WATER SYSTEM IS CONTAMINATED (I.E., WATER DOES NOT MEET FEDERAL AND STATE REQUIREMENTS) DUE TO CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL BE RESPONSIBLE, UNDER THE DIRECTION OF THE OWNER, OR STATE AND LOCAL REGULATORY AGENCY FOR CORRECTING ANY SUCH CONTAMINATION PROBLEM INCLUDING DISINFECTION, TESTING AND OTHER CORRECTIVE ACTION.
16. WHEN CONSTRUCTION ACTIVITIES DISTURB AREAS WITHIN 10 FEET OF A TOP OF BANK FOR ANY WATERWAY OR WATER SURFACE, THE CONTRACTOR SHALL PROVIDE CROSSING AND SEDIMENTATION CONTROL MEASURES AS DETAILED, SPECIFIED OR AS REQUIRED BY THE JURISDICTIONAL REGULATORY AGENCIES; WHICHEVER REQUIREMENT IS MORE STRINGENT.
17. THE SHOWN LOCATIONS OF RIGHTS-OF-WAY AND UTILITIES ARE APPROXIMATE. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO EXACTLY LOCATE ALL RIGHTS-OF-WAY AND UTILITY LINES IN THE CONSTRUCTION AREA PRIOR TO EXCAVATION. ANY DAMAGE TO ANY EXISTING UTILITY, STRUCTURE OR SERVICE SHALL BE REPAIRED, AT THE CONTRACTOR'S EXPENSE, IN A MANNER APPROVED BY THE RESPECTIVE UTILITY OWNER.
18. TRAFFIC SHALL BE MAINTAINED AT ALL TIMES AS PER FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ROADWAY AND TRAFFIC DESIGN STANDARDS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITIONS.
19. REMOVAL OF TREES GREATER THEN 4-INCH BASAL DIAMETER SHALL BE ONLY AS DIRECTED BY THE OWNER/ENGINEER. CONTRACTOR SHALL LIMIT TO A MINIMUM THE AMOUNT OF TREE REMOVAL, CLEARING AND GRUBBING REQUIRED BY TRIMMING TREES WHEREVER POSSIBLE.
20. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH AFFECTED PROPERTY OWNERS AND OWNER/ENGINEER ONE WEEK IN ADVANCE OF TREE CLEARING AND GRUBBING. ALL DEBRIS FROM TREE CLEARING AND GRUBBING SHALL BE REMOVED. AT THE CONTRACTORS EXPENSE.
21. ALL ELEVATIONS SHOWN ON THESE DRAWINGS REFER TO NATIONAL GEODETIC VERTICAL DATUM (NGVD): 88 DATUM.
22. THE CONTRACTOR SHALL REPLACE ALL PAVING, SODDING, STABILIZED EARTH, LANDSCAPING, DRIVEWAYS, SIDEWALKS, IRRIGATION SYSTEMS, UNDERGROUND PIPING, ETC., DISTURBED OR DAMAGED BY THE CONSTRUCTION. THE CONTRACTOR SHALL REPLACE WITH EQUAL MATERIAL OR AS DIRECTED BY THE ENGINEER.
23. UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS, ALL ITEMS NOTED TO BE REMOVED SHALL REMAIN THE PROPERTY OF CITY OF FRUITLAND PARK (OWNER). ALL ITEMS REMOVED SHALL BE STORED BY THE CONTRACTOR ON-SITE AS DIRECTED BY THE OWNER OR ENGINEER.
24. WATER SERVICE LOCATIONS, TO BE VERIFIED IN FIELD, TO MATCH EXISTING SERVICE LOCATIONS.
25. FOR INFORMATION PERTAINING TO THE ROADWAY DESIGN, INCLUDING STORMWATER MANEGMENT SYSTEM, REFER TO PLANS PREPARED BY KIMLEY-HORN.
26. BT-# STANDS FOR BACTERIOLOGICAL TESTING SAMPLE POINT LOCATION.

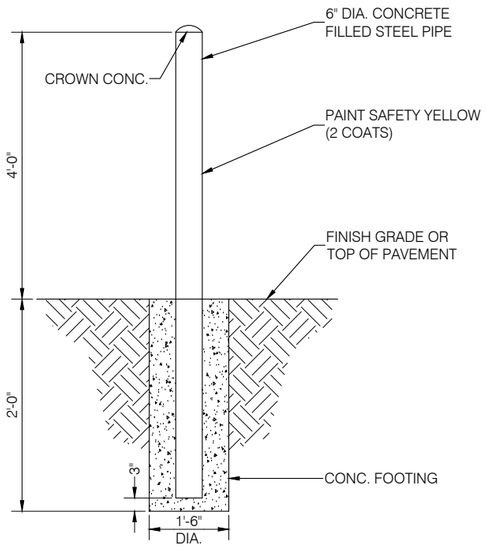
GENERAL NOTES

27. IF ACTUAL FIELD LOCATION OF WATER SERVICES ARE DIFFERENT THAN SHOWN ON THIS PLAN THEN CONTRACTOR SHALL COORDINATE WITH CITY TO CONSTRUCT THE NEW SERVICE AT OR NEAR THE EXISTING SERVICE.
28. ALL SALVAGE MATERIALS SHALL BE DELIVERED TO CITY OF FRUITLAND PARK'S SALVAGE YARD. SALVAGE TO BE COORDINATED WITH CITY OF FRUITLAND PARK.
29. ALL EXISTING WATER MAINS & WATER SERVICES SHALL REMAIN IN SERVICE UNTIL NEW WATER MAIN AND SERVICE LATERALS ARE CONSTRUCTED, TESTED, & CLEARED. CONTRACTOR TO COORDINATE WITH THE CITY OF FRUITLAND PARK FOR CHANGE OVER OF SERVICES & CONNECTIONS TO PROPOSED MAINS.
30. CONTRACTOR SHALL PROVIDE AND PERFORM A 2 WEEK LOOK AHEAD INTO THE UTILITY WORK TO BE PERFORMED. THIS SHALL INCLUDE THE VERIFICATION OF EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICAL POSITIONING, MATCHES WHAT IS SHOWN IN THE CONTRACT DOCUMENTS AND ANY NEW UTILITIES THAT ARE DISCOVERED DURING THIS LOOK AHEAD. THIS SHALL ALSO INCLUDE VERIFYING THAT UTILITIES TO REMAIN HAVE AT LEAST (3) THREE FEET OF COVER. INFORMATION OF CONFLICTS OR DISCREPANCIES WITH THE CONTRACT DOCUMENTS SHALL BE PROVIDED TO THE ENGINEER OF RECORD NO LESS THAN 1 WEEK PRIOR TO COMMENCEMENT OF WORK WITHIN SAID CONFLICT AREA. ENGINEER OF RECORD SHALL BE ALLOWED AMPLE TIME TO ADDRESS CONFLICTS/ISSUES AND PROVIDE ADJUSTMENTS TO THE DESIGN TO ADDRESS CONCERNS WITHOUT CONTRACTOR REQUESTING TIME DELAYS.
31. APPARENT ERRORS, DISCREPANCIES OR OMISSIONS SHALL BE BROUGHT TO THE ENGINEER OF RECORD'S ATTENTION WITHIN A REASONABLE TIME FRAME, LESS THAN 48 HOURS AFTER DISCOVERED. ADVANTAGE WILL NOT BE TAKEN OF APPARENT ERROR OR OMISSION IN THE DRAWINGS OR SPECIFICATIONS, AND THE ENGINEER SHALL BE PERMITTED TO MAKE CORRECTIONS AND INTERPRETATIONS AS MAY BE DEEMED NECESSARY FOR FULFILLMENT OF THE INTENT OF THE DESIGN.
32. CONTRACTOR TO COORDINATE WITH FRANCHISE UTILITY OWNERS FOR WORK NEAR POLES.

Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!



NOTE: USE 3,000 PSI (MIN.) CONCRETE

BOLLARD DETAIL

NOT TO SCALE

DUANE K. BOOTH LICENSE No. 44631 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEPT. 06, 2023

General Water Notes

1. WATER SYSTEM COMPONENTS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND REGULATIONS, CLEANED, DISINFECTED AND BACTERIOLOGICALLY CLEARED FOR SERVICE IN ACCORDANCE WITH THE LATEST AWWA STANDARDS AND CHAPTER 62-555 FLORIDA ADMINISTRATIVE CODE.
2. ALL PIPING SHALL BEAR THE "NSF" SEAL FOR POTABLE WATER.
3. WATER MAINS SHALL BE PVC CONFORMING TO AWWA C-900, DR 18 FOR PIPE SIZES 4"-12". PIPES 14" OR LARGER SHALL BE AWWA C-905, DR 18. ALL COUPLINGS, CLEANING COMPOUNDS, SOLVENTS, LUBRICANTS, AND PIPE PREPARATION, FOR LAYING, SHALL BE IN ACCORDANCE WITH THE PIPE MANUFACTURERS LATEST RECOMMENDATIONS.
4. DEPTH OF WATER LINES TO BE 36" MINIMUM COVER FROM FINISH GRADE.
5. WATER MAINS TO BE LOCATED 6.00' FROM BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
6. ALL SLEEVES UNDER PAVEMENT SHALL EXTEND 5' BEYOND THE BACK OF CURB.
7. DISINFECTING: FOLLOWING THE PRESSURE TESTING, THE CONTRACTOR SHALL DISINFECT ALL SECTIONS OF THE WATER DISTRIBUTION SYSTEM. DISINFECTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF AWWA STANDARD C651 "DISINFECTING WATER MAINS", AND ALL APPROPRIATE AGENCY APPROVAL.
8. ALL HYDROSTATIC TEST SHALL BE IN ACCORDANCE WITH AWWA C600 FOR DUCTILE IRON PIPE AND C605/M23 FOR PVC PIPE.
9. ALL WATER MAINS SHALL BE INSTALLED, PRESSURE AND LEAK TESTED IN ACCORDANCE WITH AWWA C600, (62-555.320(21)(b)1 AND 62-555.330, F.A.C. ALL INSTALLATION, TESTING AND FIELD PROCEDURES MUST BE PROVIDED AND MUST CONFORM TO THE APPLICABLE AWWA STANDARDS.
10. ALL PIPING MATERIALS AND SPECIFICATIONS COVERING PIPES, JOINTS AND PACKING MATERIALS, INTERNAL COATING AND LININGS, FITTINGS, SPECIALS AND APPURTENANCES SHALL ALL BE IN ACCORDANCE WITH THE CORRESPONDING AWWA STANDARDS AND BE CONFORMING TO NSF REQUIREMENTS, AS MAY BE APPLICABLE, WITH EXCEPTIONS ALLOWED ONLY IF DOCUMENTATION AND ASSURANCES ARE PROVIDED IN COMPLIANCE WITH PARAGRAPHS 62-555.320(3) (d) 62-555.320 (3) (b), AND 62-555.320 (21) (c), F.A.C. THE LEAD USE PROHIBITION IN RULE 62-555.322, F.A.C. SHALL ALSO APPLY. POLYETHYLENE TUBING SHALL BE PER AWWA C901. UNDERGROUND SERVICE LINES, AND VALVES SHALL BE PER AWWA C800.

COLOR CODING

All water main pope, including fittings, installed on or after August 28, 2003, except pipe installed under a construction permit for which the Department received a complete application before August 28, 2003, shall be color coded or marked using blue as a predominate color to differentiate drinking water from reclaimed or other water. Underground plastic pipe shall be solid-wall blue pipe, shall have a co-extruded blue external skin, or shall be white or black pipe with blue stripes incorporated into, or applied to, the pipe wall; and underground metal or concrete pipe shall have blue stripes applied to the pipe wall. Pipe striped during manufacturing of the pipe shall have continuous stripes that run parallel to the axis of the pipe, that are located at no greater than 90° intervals around the pipe, and will remain intact during and after installation of the pipe. If tape or paint is used to stripe pipe during installation of the pipe, the tape or paint shall be applied in a continuous line that runs parallel to the axis of the pipe and that is located along the top of the pipe; for pipes with an internal diameter of 24 inches or greater, tape or paint shall be applied in continuous lines along each side of the pipe as well as along the top of the pipe. Aboveground pipe as drinking water treatment plants shall be color coded and labeled in accordance with subsection 62-555.320(10),F.A.C., and all other aboveground pipe shall be painted blue or shall be color coded or marked like underground pipe.

Utility Construction Notes (DEP)

62-555.314 Location of Public Water System Mains:
For the purpose of this section, the phrase "Water Mains" shall mean Mains, including treatment Plant process piping, conveying either raw, partially treated, or finished drinking water; Fire Hydrant leads; and service lines that are under the control of a Public Water System and that have an inside diameter of three (3") inches or greater.

(1) Horizontal Separation Between Underground Water Mains and Sanitary or Storm Sewers, Wastewater or Storm water Force Mains, Reclaimed Water Pipelines, and On-site Sewage Treatment and Disposal Systems:
(a) New or relocated, underground WATER MAINS shall be laid to provide a horizontal distance of at least (3) Three Feet between the outside of the WATER MAIN and the outside of any existing or proposed Storm Sewer, Storm water Force Main, or pipeline conveying reclaimed water regulated under Part III of Chapter 62-610, F.A.C.
(b) New or relocated, underground WATER MAINS shall be laid to provide a horizontal distance of at least (3) three feet, and preferably (10) Ten Feet, between the outside of the WATER MAIN and the outside of any existing or proposed vacuum-type Sanitary Sewer.
(c) New or relocated, underground WATER MAINS shall be laid to provide a horizontal distance of at least (6) Six Feet, and preferably (10) Ten Feet, between the outside of the WATER MAIN and the outside of any existing or proposed Gravity- or Pressure-type Sanitary Sewer, Wastewater Force Main, or pipeline conveying reclaimed water not regulated under Part III of Chapter 62-610 F.A.C. The Minimum Horizontal Separation distance between WATER MAINS and Gravity-type Sanitary Sewers shall be reduced to (3) Three Feet where the BOTTOM of the WATER MAIN is laid at least (6) Six Inches above the Top of the Sewer.
(d) New or relocated, underground WATER MAINS shall be laid to provide a horizontal distance of at least (10) Ten Feet between the outside of the WATER MAIN and all parts of any existing or proposed "On site Sewage Treatment and Disposal System" as defined in Section 381.0065(2). F.S. and Rule 64E-6.002. F.A.C.

(2) Vertical Separation Between Underground WATER MAINS and Sanitary or Storm Sewers, Wastewater or Storm water Force Mains, and Reclaimed Water Pipelines:
(a) New or relocated underground WATER MAINS crossing any existing or proposed gravity- or vacuum-type sanitary sewer or storm sewer shall be laid so the outside of the WATER MAIN is at least (6) Six inches, and preferably 12 inches above, or at least 12 Inches below the outside of the other pipeline. However, it is preferable to lay the WATER MAIN "ABOVE" the other pipeline.
(b) New or relocated, Underground WATER MAINS crossing any existing or proposed pressure-type sanitary sewer, wastewater or stormwater Force Main, or Pipeline conveying reclaimed water shall be laid so the outside of the WATER MAIN is at least (12) inches ABOVE or BELOW the Outside of the other pipeline. However, it is preferable to lay the WATER MAIN above the other pipeline.
(c) At the Utility crossings described in paragraphs (a) & (b) Above, one full length of Water Main Pipe shall be centered above or below the other pipeline so the WATER MAIN Joints will be as far as possible from the other pipeline. Alternatively, at such crossings, the pipes shall be arranged so that all WATER MAIN Joints are at least (3) Three feet from all joints in Vacuum-type Sanitary Sewers, Storm Sewers, Stormwater Force Mains, or pipelines conveying reclaimed water regulated under Part III of Chapter 62-610, F.A.C., and at least (6) Six Feet from all Joints in Gravity- or Pressure-type Sanitary Sewers, Wastewater force mains, or pipelines conveying reclaimed water not regulated under Part III of Chapter 62-610, F.A.C.

(3) Separation Between WATER MAINS and Sanitary or Storm Sewer Manholes:
(a) No WATER MAIN shall pass thru, or corne into contact with any part of a Sanitary Manhole or a Storm Sewer Manhole.

(4) Separation Between Fire Hydrant Drains and Sanitary or Storm Sewers, Wastewater or Stormwater Force Mains, reclaimed Water Pipelines, and On-Site Sewage Treatment and Disposal Systems. New or relocated Fire Hydrants with underground Drains shall be located so that the drains are at least (3) Three Feet from any existing or proposed storm sewer, Stormwater force main, or pipeline conveying reclaimed water regulated under Part III of Chapter 62-610, F.A.C.; at least (3) Three Feet, and preferably (10) Ten Feet, from any existing or proposed gravity- or Pressure-type Sanitary Sewer, Wastewater force main, or pipeline conveying reclaimed water not regulated under Part III of Chapter 62-610, F.A.C.; and at least (10) Ten Feet from any existing or proposed "on-site sewage treatment and disposal system" as defined in Section 381.0065(2), F.S. and Rule 64E-6.002, F.A.C.

(5) Exceptions/Mitigation:
Adherence to the above Constraints and Separations in Items 1 through 4 shall be Complied to, "WITHOUT EXCEPTION". If for some reason where it is not technically feasible or Economically Sensible that Items 1 through 4 cannot be complied with, Contractor will Stop Work and Notify the Engineer of record for the appropriate solution, which will be submitted to "The Department of Environmental Protection" for APPROVAL, prior to work commencement.

PIPE CLEARANCE NOTES

NOT TO SCALE

FRUITLAND PARK THE FRIENDLY CITY

City of Fruitland Park Standard Details

JANUARY 2020

Detail G-4B

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

halff
DUANE K. BOOTH, P.E.
P.E. LICENSE NUMBER 44631
902 NORTH SINCLAIR AVE.
TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

GENERAL NOTES & GENERAL DETAILS

CITY OF FRUITLAND PARK THE FRIENDLY CITY

SHEET NO.

U-40

DUANE K. BOOTH
LICENSE
No. 44631
STATE OF FLORIDA
PROFESSIONAL ENGINEER

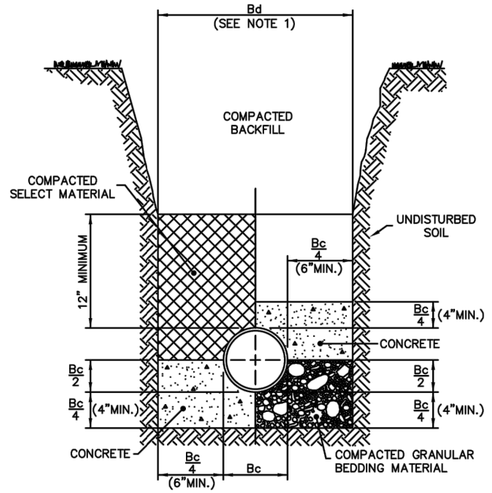
SEPT. 06, 2023

GENERAL WATER NOTES

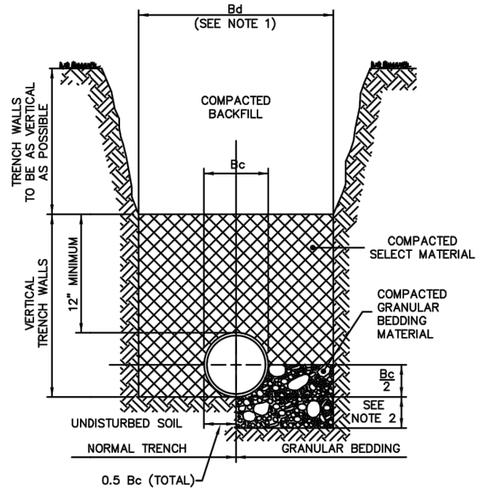
1. WATER SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND REGULATIONS, CLEANED, DISINFECTED AND BACTERIOLOGICALLY CLEARED FOR SERVICE IN ACCORDANCE WITH THE LATEST AWWA STANDARDS AND CHAPTER 62-555 FLORIDA ADMINISTRATIVE CODE.
2. ALL PIPING SHALL BEAR THE "NSF" SEAL FOR POTABLE WATER.
3. WATER MAINS SHALL BE PVC CONFORMING TO AWWA C-900, DR 18 FOR PIPE SIZES 4"-12". PIPES 14" OR LARGER SHALL BE AWWA C-905, DR 18. ALL COUPLINGS COMPOUNDS, SOLVENTS, LUBRICANTS AND PIPE PREPARATION, FOR LAYING, SHALL BE IN ACCORDANCE WITH THE PIPE MANUFACTURERS LATEST RECOMMENDATIONS.
4. DEPTH OF WATER LINES TO BE MINIMUM 36" BELOW FINISHED GRADE.
5. WATER MAINS TO BE LOCATED 5' FROM BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
6. ALL PIPING CLEARANCES SHALL BE IN ACCORDANCE WITH CHAPTER 62-555.314, F.A.C., AND APPROVED BY THE CITY.
7. ALL WATER MAINS UNDER PAVEMENT SHALL BE DUCTILE IRON AND SHALL EXTEND 5' BEYOND THE BACK OF CURB. OR DIRECTIONAL BORES, WHICH SHALL BE SDR-11 HDPE.
8. ALL SLEEVES UNDER PAVEMENT SHALL EXTEND 5' BEYOND THE BACK OF CURB.

* * NOTE: MARK ALL POINTS WHERE WATER SERVICES CROSS CURB WITH A "W" MARK IN CONCRETE.

FRUITLAND PARK THE FRIENDLY CITY	City of Fruitland Park Standard Details	JANUARY 2020
		Detail W-1



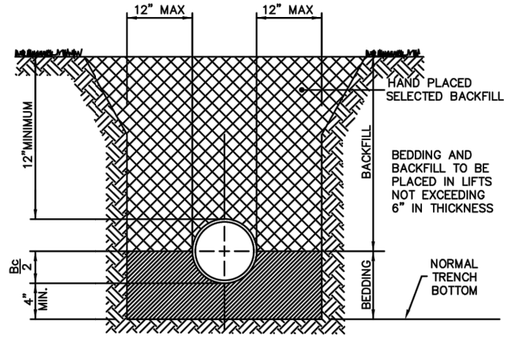
CLASS "A" BEDDING
SPECIAL CONDITIONS



CLASS "B" BEDDING
NORMAL CONDITIONS

NOTES: FOR BEDDING AND TRENCHING

1. Dimension Bc = Pipe O.D.
   Dimension Bd = Trench Width at Top of Pipe
   Maximum Bd = Bc + 30"
   Minimum Bd = Maximum Dimension of Bell + 8" (Unsheeted Trench)
2. Depth for removal for unsuitable material shall be as required to reach suitable foundation. For rock or other non-cushioning material, depth shall be 6" below bottom of utility.
3. All backfill and select material under all roadways, drives (including dirt drives), and parking areas shall be compacted to 98% of the modified proctor maximum dry density. (AASHTO T-180). Backfill and select material under all other areas shall be compacted as follows: From bottom of trench to 12" above top of pipe - 95% of modified proctor maximum dry density (AASHTO T-180). From 12" above top of pipe to top of backfill - 90% of modified proctor maximum dry density (AASHTO T-180)



SANITARY SEWER
PIPE BEDDING

BEDDING DETAILS

NOT TO SCALE

FRUITLAND PARK THE FRIENDLY CITY	City of Fruitland Park Standard Details	JANUARY 2020
		Detail G-3

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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DUANE K. BOOTH, P.E.
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902 NORTH SINCLAIR AVE.
TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK COUNTY ROAD 466A UTILITY EXTENSIONS PHASE 3B		
ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

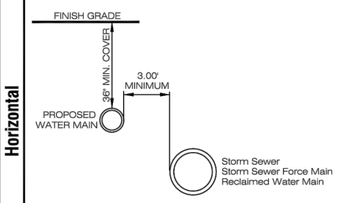
GENERAL WATER NOTES & GENERAL DETAILS

CITY OF FRUITLAND PARK THE FRIENDLY CITY

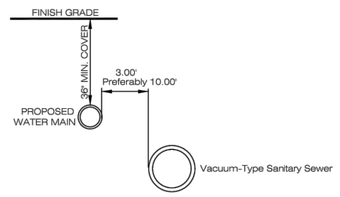
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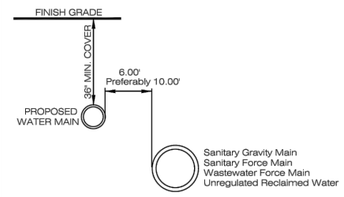
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DETAIL OF ITEM 1.(a)

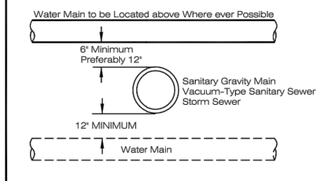


DETAIL OF ITEM 1.(b)

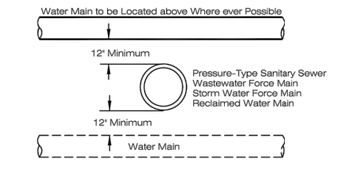


DETAIL OF ITEM 1.(c)

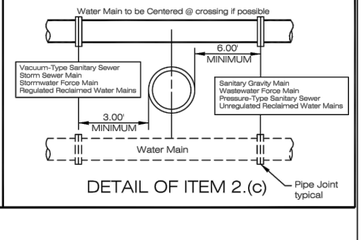
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DETAIL OF ITEM 2.(a)



DETAIL OF ITEM 2.(b)



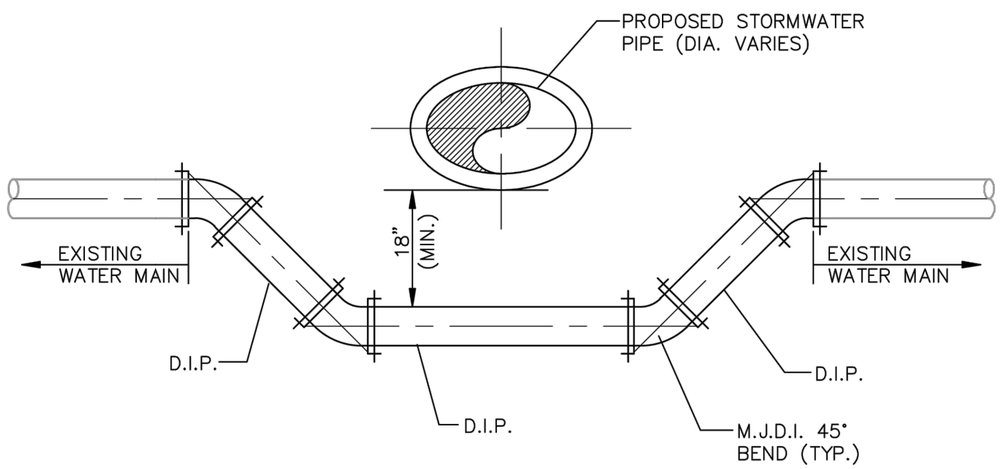
DETAIL OF ITEM 2.(c)

UTILITY SEPARATIONS

PIPE CLEARANCE

NOT TO SCALE

FRUITLAND PARK THE FRIENDLY CITY	City of Fruitland Park Standard Details	JANUARY 2020
		Detail G–4A



NOTES:

1. ALL PROPOSED JOINTS SHALL BE RESTRAINED.
2. ALL EXISTING JOINTS WITHIN 12' SHALL BE RESTRAINED.
3. ALL PIPING CLEARANCES SHALL BE IN ACCORDANCE WITH CHAPTER 62–555.314 F.A.C.

WATER LINE CROSSING

NOT TO SCALE

DUANE K. BOOTH
LICENSE
No. 44631
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

SEPT. 06, 2023

FRUITLAND PARK THE FRIENDLY CITY	City of Fruitland Park Standard Details	JANUARY 2020
		Detail G–5

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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DUANE K. BOOTH, P.E.
P.E. LICENSE NUMBER 44631
902 NORTH SINCLAIR AVE.
TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

GENERAL DETAILS

CITY OF FRUITLAND PARK THE FRIENDLY CITY

SHEET NO.

U-42

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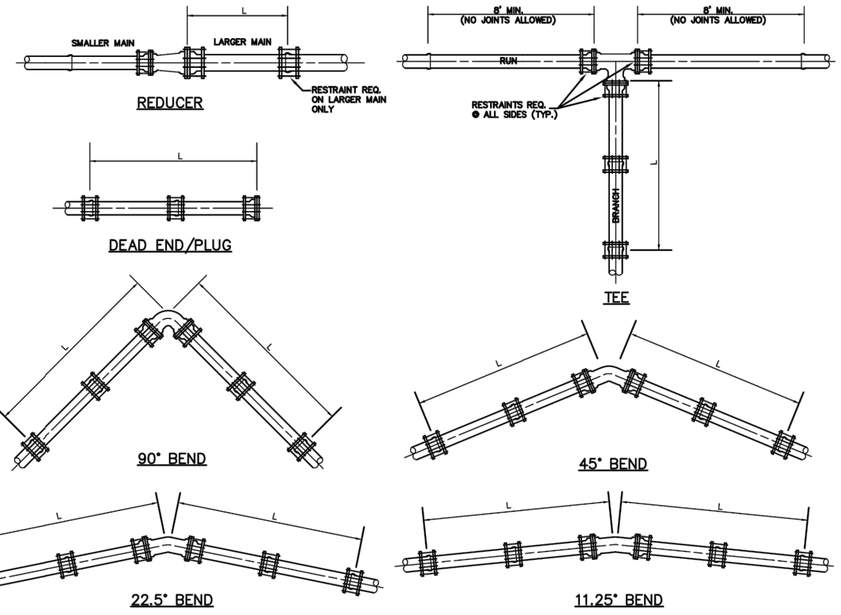


TABLE OF THRUST RESTRAINT LENGTHS

PIPE SIZE (Inches)	90° BEND		45° BEND		22 1/2° BEND		11 1/4° BEND		TEES		DEAD END & PLUG		REDUCER		
	P.V.C. (L)	DUCTILE IRON (L)	P.V.C. (L)	DUCTILE IRON (L)	P.V.C. (L)	DUCTILE IRON (L)	P.V.C. (L)	DUCTILE IRON (L)	P.V.C. (L)	DUCTILE IRON (L)	P.V.C. (L)	DUCTILE IRON (L)	PIPE SIZES	P.V.C. (L)	DUCTILE IRON (L)
4	20'	16'	8'	7'	4'	3'	2'	2'	15'	10'	45'	29'	6"x4"	33'	21'
6	28'	22'	12'	9'	6'	4'	3'	2'	33'	21'	63'	40'	8"x6"	34'	22'
8	36'	29'	15'	12'	7'	6'	4'	3'	52'	33'	82'	52'	10"x8"	33'	21'
10	43'	34'	18'	14'	9'	7'	4'	3'	68'	43'	98'	63'	12"x10"	34'	22'
12	50'	40'	21'	17'	10'	8'	5'	4'	84'	54'	116'	74'	16"x12"	63'	40'
16	63'	51'	26'	21'	13'	10'	6'	5'	116'	74'	148'	94'	18"x16"	33'	21'
18	70,	56'	29'	23'	14'	11'	7'	6'	131'	83'	163'	103'	20"x18"	33'	21'
20	75'	61'	31'	25'	15'	12'	7'	6'	145'	92'	178'	113'	20"x20"	62'	39'
24	86'	70'	36'	29'	17'	14'	9'	7'	173'	110'	207'	132'			

THRUST RESTRAINT DESIGN NOTES

1. RESTRAINT JOINTS, FITTINGS, & VALVE REQUIREMENTS CALCULATED BY THE THRUST RESTRAINT DESIGN PROGRAM PROVIDED BY UNI-FLANGE, THE FORD METER BOX COMPANY, INC.
2. DATA BASED ON MAX. PRESSURE OF 150 p.s.i., THE UNIFIED SOILS CLASSIFICATION SYSTEM (SOIL TYPE SP), THE PIPE BEDDED IN NATIVE SOIL w/ A MINIMUM OF 2.5' COMPACTED FILL OVER THE PIPE, AND USING A SAFETY FACTOR OF 1.5 FOR THE DATA.
3. ALL FITTINGS & VALVES SHALL HAVE RESTRAINED JOINTS PER SPECIFICATIONS & ALL BELL & SPIGOT JOINTS TO BE RESTRAINED WITH A RESTRAINING HARNESS WITHIN THE REQUIRED LENGTH OF RESTRAINED PIPE (L).
4. THRUST BLOCKS SHALL BE USED ONLY AS SPECIFIED BY PROJECT ENGINEER.

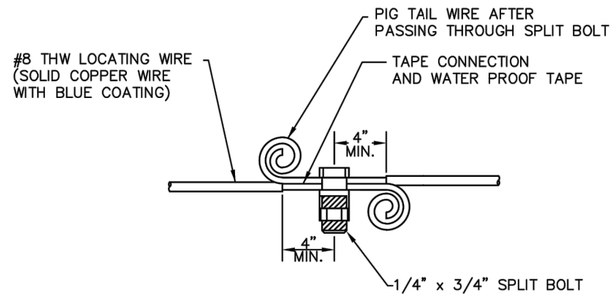
THRUST RESTRAINT DETAILS

NOT TO SCALE

FRUITLAND PARK THE FRIENDLY CITY	City of Fruitland Park Standard Details	JANUARY 2020
		Detail G-6

SEPT. 06, 2023

DUANE K. BOOTH LICENSE No. 44631 STATE OF FLORIDA PROFESSIONAL ENGINEER



NOTES:

1. THE ENDS OF ALL LOCATING WIRES, WHETHER THEY ARE SPLICED, CONNECTED, OR TERMINATED, SHALL HAVE THE LAST THREE INCHES PIG TAILED AS DETAILED HEREON.
2. AFTER INSTALLATION OF THE LOCATING WIRE THE SYSTEM SHALL BE SUBJECTED TO TESTING, IN THE PRESENCE OF CITY UTILITIES STAFF PRIOR TO BACKFILL, IN ORDER TO THAT THE SYSTEM IS FUNCTIONAL.

LOCATING WIRE SPLICING

NOT TO SCALE

FRUITLAND PARK THE FRIENDLY CITY	City of Fruitland Park Standard Details	JANUARY 2020
		Detail G-8

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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DUANE K. BOOTH, P.E.
P.E. LICENSE NUMBER 44631
902 NORTH SINCLAIR AVE.
TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

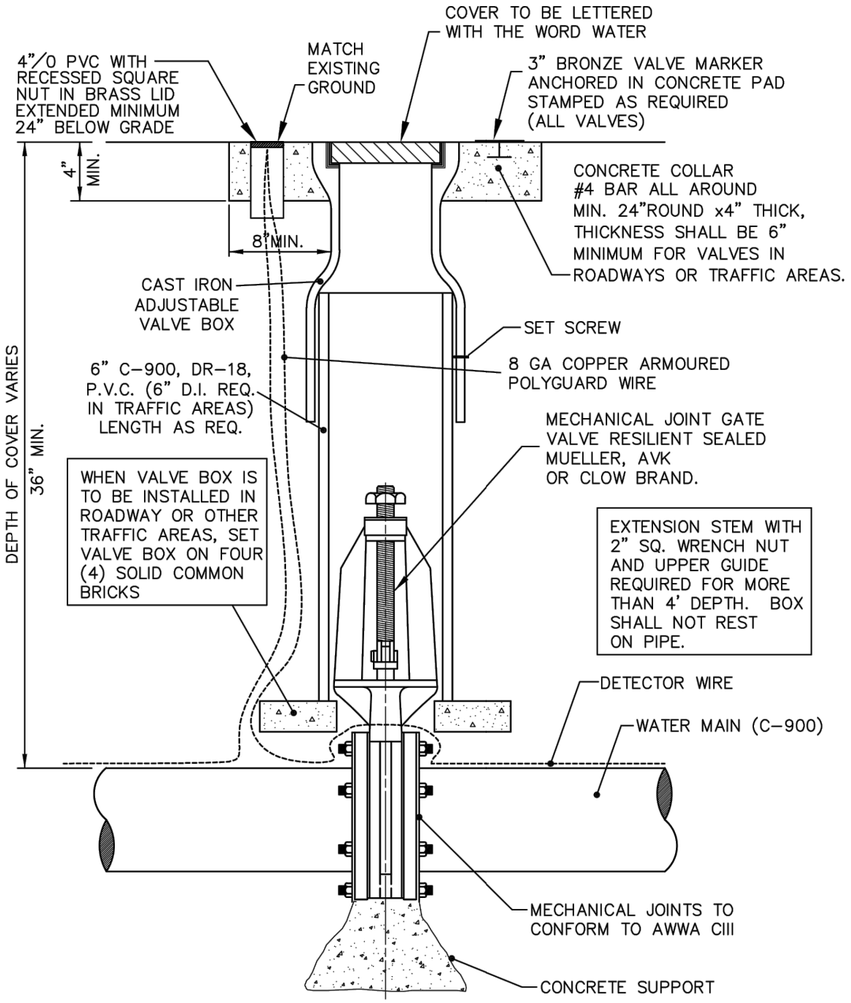
CITY OF FRUITLAND PARK COUNTY ROAD 466A UTILITY EXTENSIONS PHASE 3B		
ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

GENERAL DETAILS

CITY OF FRUITLAND PARK THE FRIENDLY CITY

SHEET NO. U-43

ah5134 Jul 27, 2023 - 11:37AM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B DETAILS.dwg



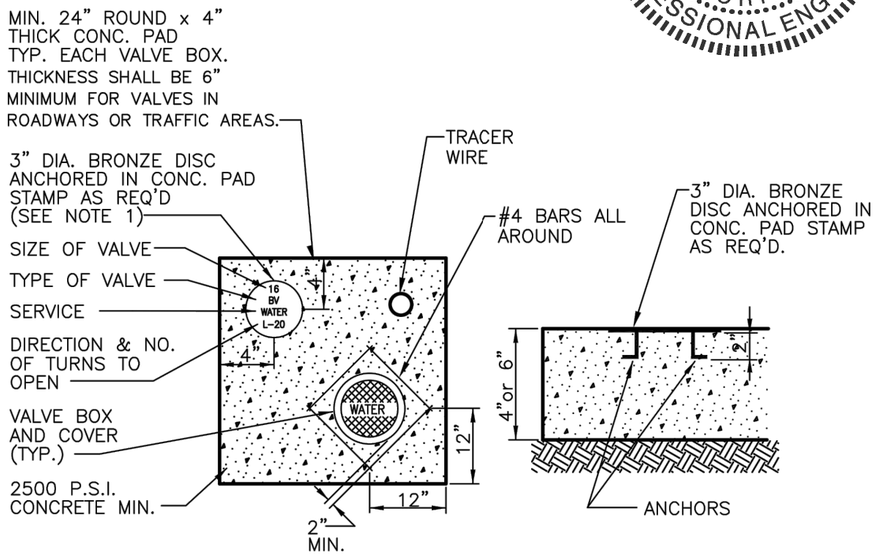
GATE VALVE & BOX

NOT TO SCALE

FRUITLAND PARK THE FRIENDLY CITY	City of Fruitland Park Standard Details	JANUARY 2020
		Detail W-3

SEPT. 06, 2023

DUANE K. BOOTH LICENSE No. 44631 STATE OF FLORIDA PROFESSIONAL ENGINEER



NOTES:
1. BRONZE IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES

VALVE COLLAR

NOT TO SCALE

FRUITLAND PARK THE FRIENDLY CITY	City of Fruitland Park Standard Details	JANUARY 2020
		Detail W-5

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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DUANE K. BOOTH, P.E.
P.E. LICENSE NUMBER 44631
902 NORTH SINCLAIR AVE.
TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

WATER DETAILS

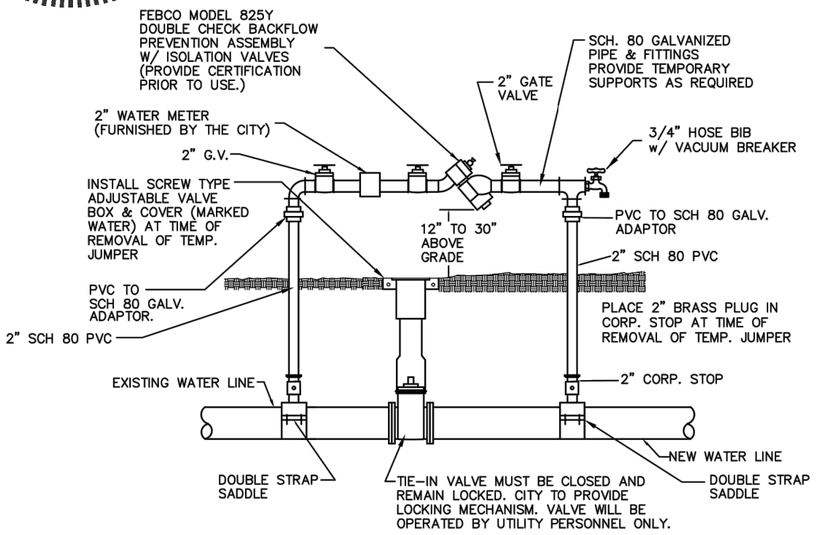
CITY OF FRUITLAND PARK THE FRIENDLY CITY

SHEET NO. U-44

ahl5134 Jul 27, 2023 - 11:37AM A:\43000s\43866\101\LD\CIVIL\043866.101 CR 466A Phase 3B DETAILS.dwg

SEPT. 06, 2023

DUANE K. BOOTH
LICENSE
No. 44631
STATE OF
FLORIDA
PROFESSIONAL ENGINEER



TEMPORARY JUMPER CONNECTION DETAIL

NOT TO SCALE

NOTE: LOCATION TO BE DETERMINED AT TIME OF PRECONSTRUCTION CONFERENCE W/ CITY.

	City of Fruitland Park Standard Details	JANUARY 2020
FRUITLAND PARK THE FRIENDLY CITY		Detail W-7

TEMPORARY JUMPER CONNECTION NOTES

1. A TEMPORARY JUMPER CONNECTION IS REQUIRED AT ALL CONNECTIONS BETWEEN EXISTING ACTIVE WATER MAINS AND PROPOSED NEW WATER MAIN IMPROVEMENTS.

2. THE DETAILS TO BE USED FOR FILLING ANY WATER MAIN OF ANY SIZE FROM EXISTING ACTIVE WATER MAINS AND FOR FLUSHING OF NEW MAINS UP TO 8" DIAMETER (2.5 FPS MINIMUM VELOCITY) AND FOR PULLING BACTERIOLOGICAL SAMPLES FROM ANY NEW WATER MAIN OF ANY SIZE. THE JUMPER CONNECTION SHALL BE MAINTAINED UNTIL AFTER FILLING, FLUSHING, TESTING AND DISINFECTION OF THE NEW MAIN HAS BEEN SUCCESSFULLY COMPLETED AND CLEARANCE FOR USE FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AND OTHER PERTINENT AGENCIES HAS BEEN RECEIVED. THE JUMPER CONNECTION SHALL ALSO BE USED TO MAINTAIN A MINIMUM PRESSURE OF 20 psi IN THE NEW MAINS ALL THE TIME AFTER DISINFECTION AND UNTIL THE FDEP CLEARANCE LETTER IS OBTAINED. ADEQUATE THRUST BLOCKING AND/OR RESTRAINTS SHALL BE PROVIDED TEMPORARILY, AS REQUIRED. PIPE AND FITTINGS USED FOR CONNECTING THE NEW PIPE TO THE EXISTING PIPE SHALL BE DISINFECTED PRIOR TO INSTALLATION IN ACCORDANCE WITH AWWA C651. THIS TAPPING SLEEVE AND THE EXTERIOR OF THE MAIN TO BE TAPPED SHALL BE DISINFECTED BY SPRAYING OR SWABBING PER SECTION II OF AWWA C651.

3. FLUSHING OF 10" DIAMETER AND LARGE WATER MAINS MAY BE DONE THROUGH THE TIE-IN VALVE, IN THE PRESENCE OF THE UTILITY DEPART. THE UTILITY DEPARTMENT WILL BE NOTIFIED IN WRITING 48 HOURS PRIOR TO THE FLUSHING OF SAID MAINS.

   THE FOLLOWING PROCEDURES SHALL BE FOLLOWED:

   A. THE TIE-IN VALVES SHALL BE OPERATED AND PRESSURE TESTED IN THE PRESENCE OF THE UTILITY COMPANY AND ENGINEER TO VERIFY WATER TIGHTNESS PRIOR TO THE TIE-IN. VALVES WHICH ARE NOT WATERTIGHT SHALL BE REPLACED OR A NEW VALVE INSTALLED IMMEDIATELY ADJACENT TO THE LEAKING VALVE.

   B. THE TEMPORARY JUMPER CONNECTION SHALL BE CONSTRUCTED AS DETAILED. THE JUMPER CONNECTION SHALL BE USED TO FILL THE NEW WATER MAIN AND FOR PROVIDING WATER FOR BACTERIOLOGICAL SAMPLING OF THE NEW MAIN AS REQUIRED BY THE FDEP PERMIT.

      - FLUSHING SHALL NOT BE ATTEMPTED DURING PEAK DEMAND HOURS OF THE EXISTING WATER MAIN.
      - ALL DOWNSTREAM VALVES IN THE NEW SYSTEM MUST BE OPEN PRIOR TO OPENING THE TIE-IN VALVE.
      - PROVIDE FOR AND MONITOR THE PRESSURE AT THE TIE-IN POINT, THE PRESSURE IN THE EXISTING MAIN MUST NOT DROP BELOW 35 psi.
      - TIE-IN VALVE SHALL BE OPENED A FEW TURNS ONLY, ENSURING A PRESSURE DROP ACROSS THE VALE IS ALWAYS GRATER THAN 10 psi.

   C. THE TIE-IN VALVE SHALL BE LOCKED CLOSED BY THE CITY UNTIL FLUSHING BEGINS.

   D. THE TIE-IN VALVE SHALL BE OPENED ONLY A FEW TURNS FOR FLUSHING OF THE NEW MAIN. THE PROCEDURE SHALL BE DIRECTED BY THE CITY AND OBSERVED BY THE ENGINEER.

   E. AFTER FLUSHING, THE TIE-IN VALVE SHALL BE CLOSED AND LOCKED IN THE CLOSED POSITION BY THE CITY.

4. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION DEMONSTRATING THAT THE RPZ BACKFLOW PREVENTION DEVICE HAS BEEN TESTED WITHIN ONE YEAR AT THE TIME OF INSTALLATION AND IS IN GOOD WORKING ORDER AT THE TIME OF INSTALLATION. THE TEST SHALL BE PERFORMED BY A QUALIFIED BACKFLOW PREVENTION TECHNICIAN.

5. EXCEPT AS REQUIRED TO FLUSH LINES OF GREATER THAN 8" IN DIAMETER, THE TIE-IN VALVE SHALL REMAIN CLOSED AND SHALL BE LOCKED IN THE CLOSED POSITION BY THE CITY. THE TIE-IN VALVE SHALL REMAIN LOCKED CLOSED UNTIL THE NEW SYSTEM HAS BEEN CLEARED FOR USE BY FDEP AND ALL OTHER PERTINENT AGENCIES.

6. UPON RECEIPT OF CLEARANCE FOR USE FROM FDEP AND ALL OTHER PERTINENT AGENCIES, THE CONTRACTOR SHALL REMOVE THE JUMPER CONNECTION. THE CORPORATION STOPS ARE TO BE CLOSED AND PLUGGED WITH 2" BRASS PLUGS.

7. ALL INSTALLATION AND MAINTENANCE OF THE TEMPORARY JUMPER CONNECTION AND ASSOCIATED BACKFLOW PREVENTION DEVICE FITTINGS, VALVE, ETC., SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

	City of Fruitland Park Standard Details	JANUARY 2020
FRUITLAND PARK THE FRIENDLY CITY		Detail W-8

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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DUANE K. BOOTH, P.E.
P.E. LICENSE NUMBER 44631
902 NORTH SINCLAIR AVE.
TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

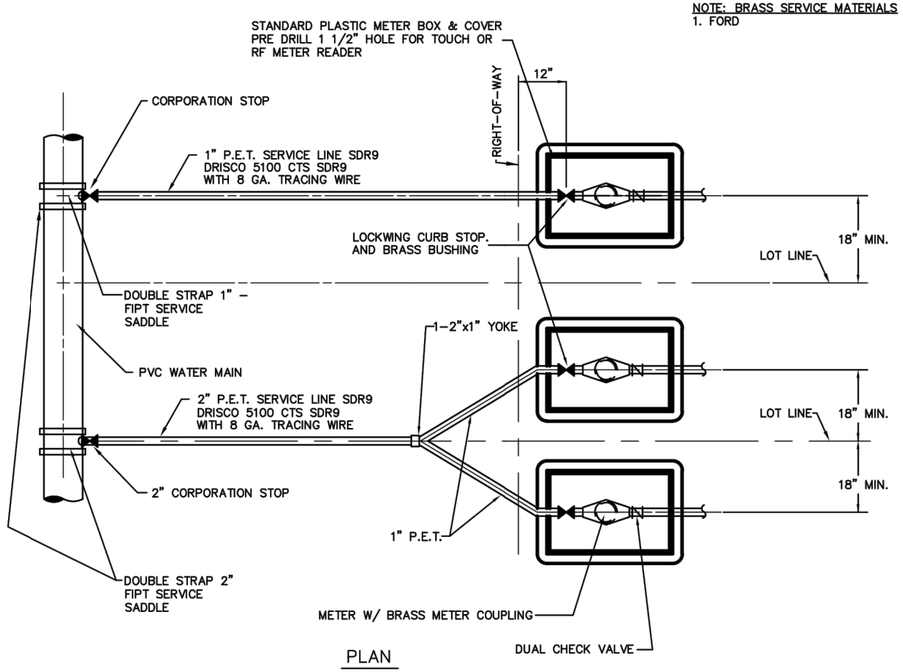
WATER DETAILS

CITY OF FRUITLAND PARK THE FRIENDLY CITY

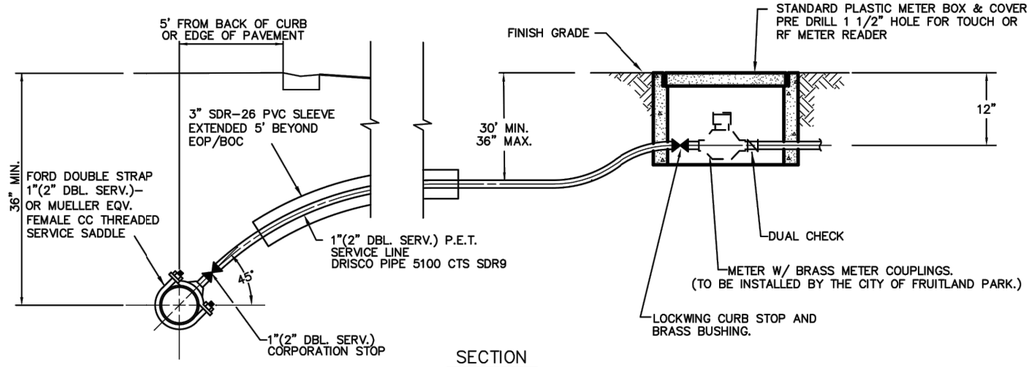
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U-45

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NOTE: BRASS SERVICE MATERIALS
1. FORD



PLAN



SECTION

WATER SERVICE CONNECTION DETAILS

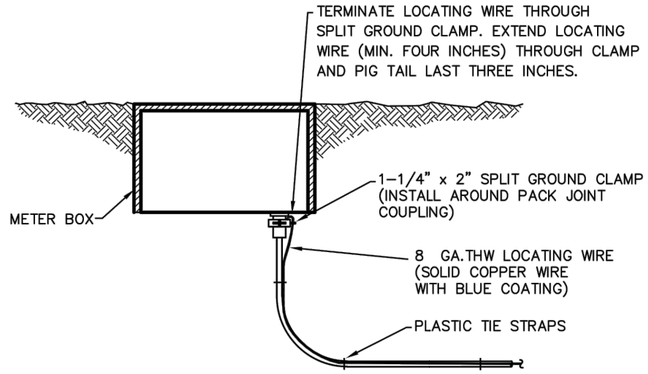
NOT TO SCALE

(NOTE: METERS TO BE INSTALLED BY CITY OF FRUITLAND PARK.)

FRUITLAND PARK THE FRIENDLY CITY	City of Fruitland Park Standard Details Residential	JANUARY 2020 Detail W-9

SEPT. 06, 2023

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SERVICE AND METER

NOT TO SCALE

FRUITLAND PARK THE FRIENDLY CITY	City of Fruitland Park Standard Details	JANUARY 2020 Detail W-10

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

WATER DETAILS

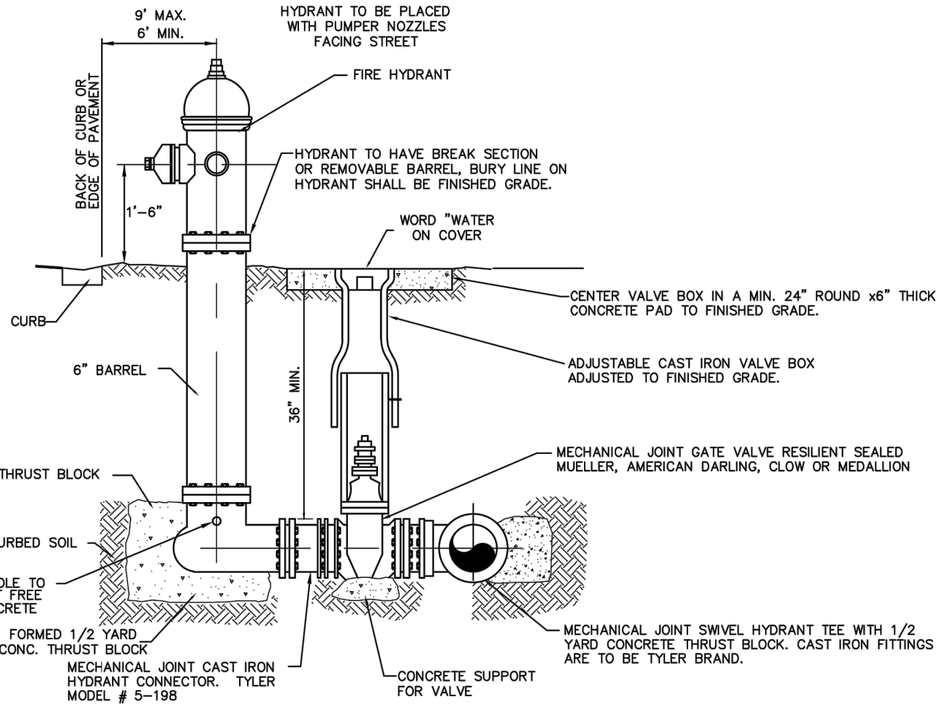
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SPECIFICATIONS

1. AWWA SPECIFICATIONS C-502
2. TWO 2-1/2" HOSE NOZZLE DISCHARGE
3. ONE 4-1/2" PUMPER NOZZLE DISCHARGE
4. ONE 1-1/2" OPERATING NUT, LEFT

   APPLY TWO COATS OF SHERMAN WILLIAMS
   RED (SHERWIN WILLIAMS #B54R38)
   FOR ALL HYDRANTS
5. HYDRANTS SHALL BE FLOW TESTED BY CONTRACTOR. COORDINATE WITH CITY ENGINEER FOR TESTING PROCEDURES.
6. ALL HYDRANTS SHALL BE EQUIPED WITH GRADE-LOK FITTINGS TO ALLOW FOR ELEVATION ADJUSTMENTS.
7. ALL HYDRANTS SHALL BE : MUELLER CENTURION 250
8. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY RISERS NEEDED TO BRING BASE OF HYDRANT TO FINISHED GRADE.



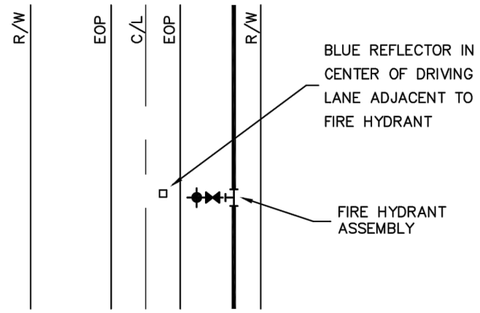
FIRE HYDRANT WITH VALVE

NOT TO SCALE
(STANDARD FIRE HYDRANT ASSEMBLY)

	City of Fruitland Park Standard Details	JANUARY 2020
FRUITLAND PARK THE FRIENDLY CITY		Detail W-11

SEPT. 06, 2023

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FIRE HYDRANT REFLECTOR DETAIL

NOT TO SCALE

	City of Fruitland Park Standard Details	JANUARY 2020
FRUITLAND PARK THE FRIENDLY CITY		Detail W-12

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

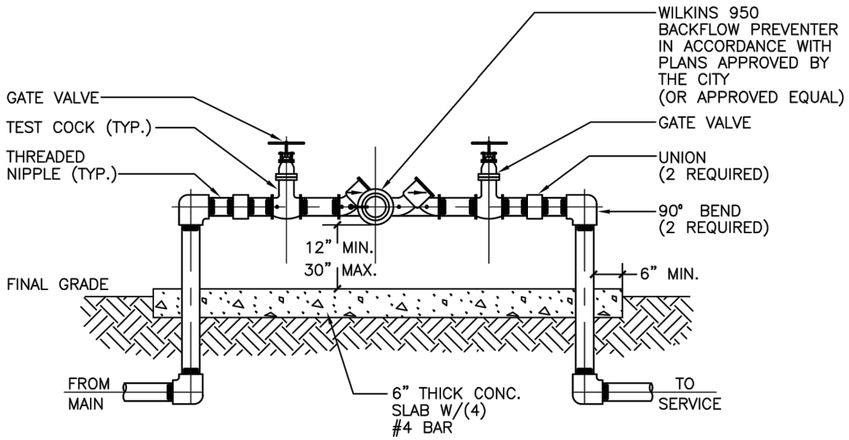
ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

WATER DETAILS

SHEET NO. U-47

SEPT. 06, 2023

DUANE K. BOOTH
LICENSE
No. 44631
STATE OF
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PROFESSIONAL ENGINEER

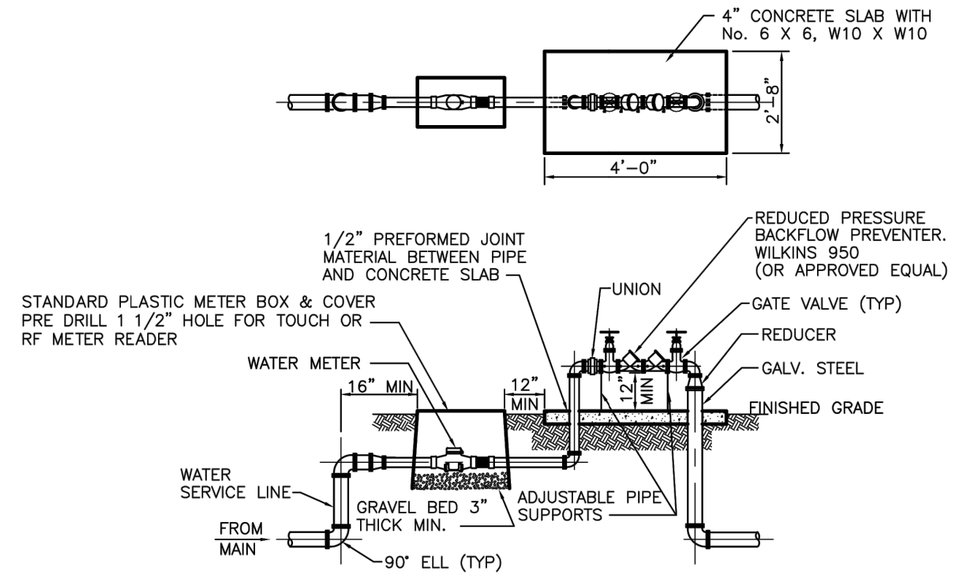


NOTES:
1. ALL PIPE AND FITTINGS SHALL BE THREADED SCHEDULE 40 GALVANIZED STEEL OR BRASS.
2. WHERE REUSE SERVICE IS AVAILABLE, ALL CONNECTIONS TO THE CITY POTABLE WATER SUPPLY SHALL BE EQUIPPED WITH AN RPZ BACKFLOW PREVENTER.

REDUCED PRESSURE BACKFLOW PREVENTER

NOT TO SCALE

FRUITLAND PARK THE FRIENDLY CITY	City of Fruitland Park Standard Details	JANUARY 2020
		Detail W–16



WATER METER/BACKFLOW PREVENTER ASSEMBLY

NOT TO SCALE

FRUITLAND PARK THE FRIENDLY CITY	City of Fruitland Park Standard Details	JANUARY 2020
	Commercial	Detail W–17

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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902 NORTH SINCLAIR AVE.
TAVARES, FL 32778
CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

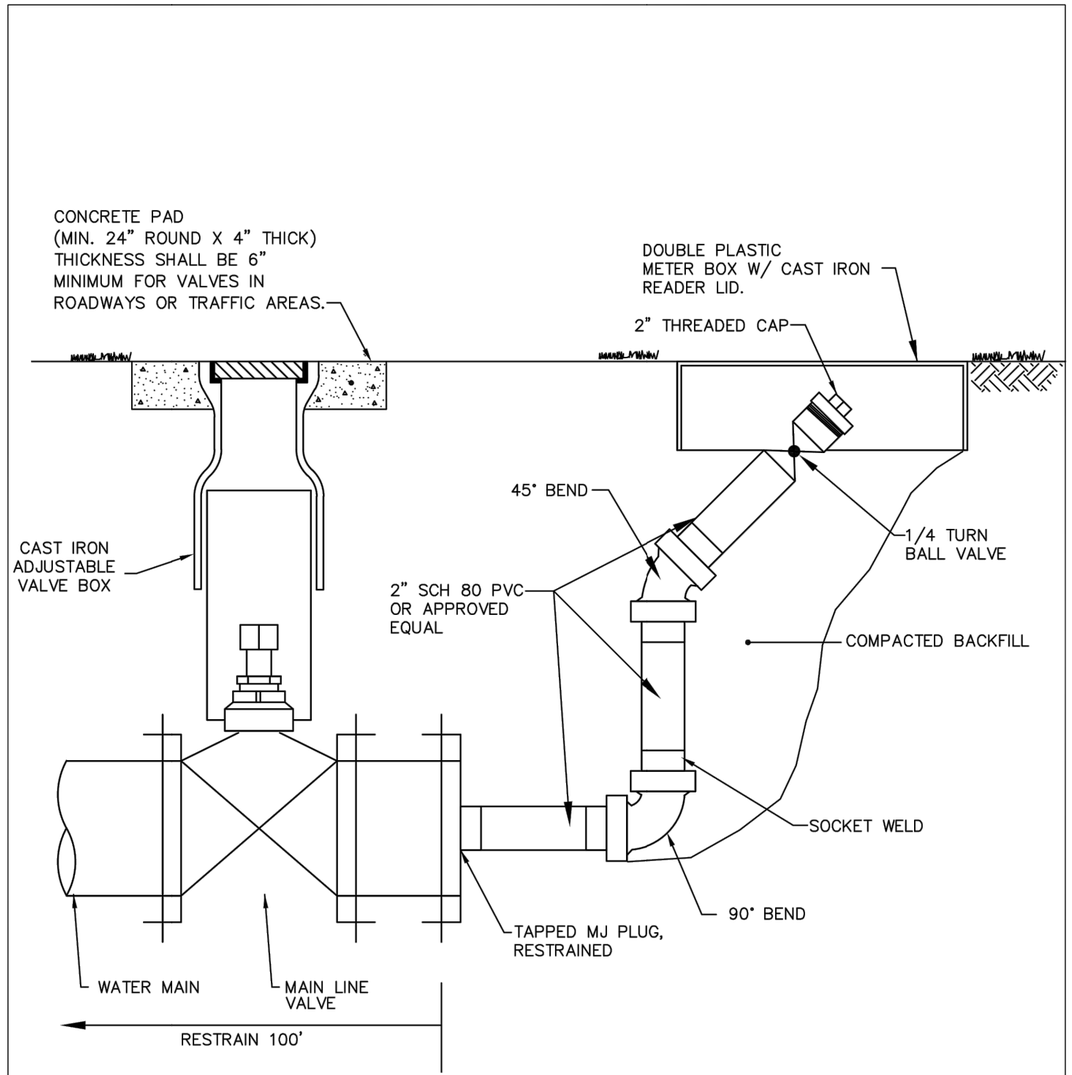
ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

WATER DETAILS

CITY OF FRUITLAND PARK THE FRIENDLY CITY

SHEET NO.
U-48

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BLOWOFF DETAIL

NOT TO SCALE

FRUITLAND PARK THE FRIENDLY CITY	City of Fruitland Park Standard Details	JANUARY 2020
		Detail W-6

DUANE K. BOOTH LICENSE No. 44631 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEPT. 06, 2023

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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CERTIFICATE OF AUTHORIZATION NO. 33380

CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

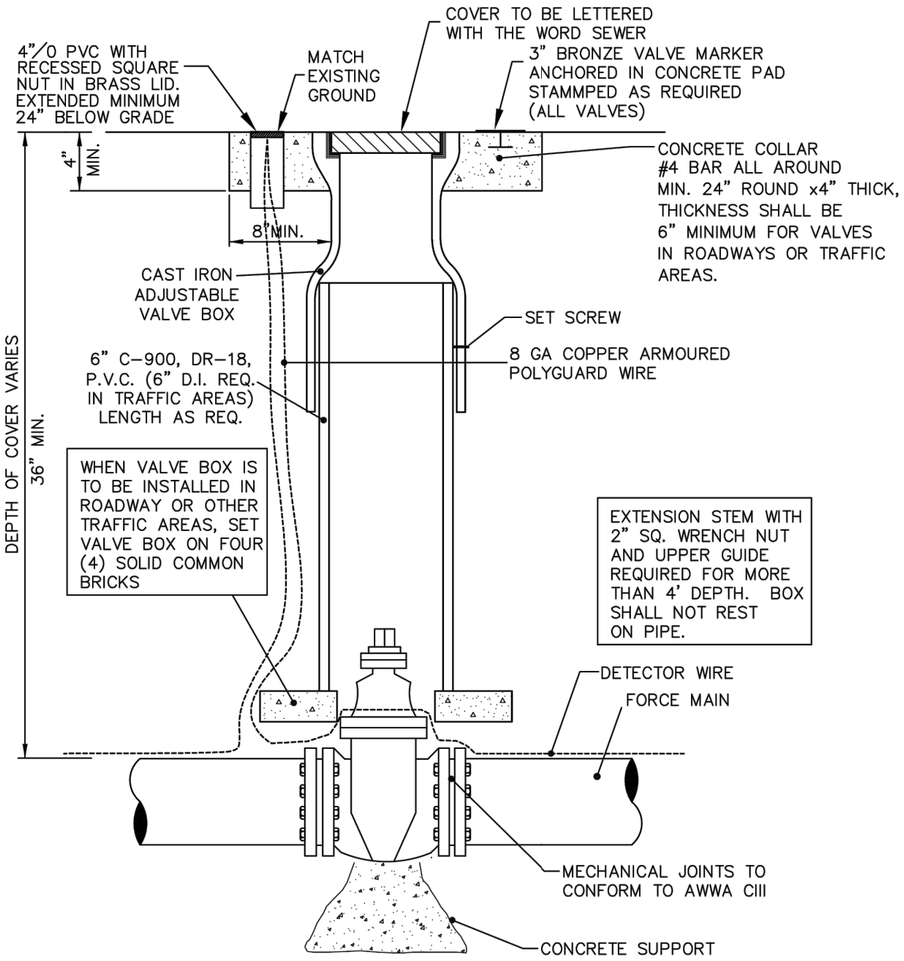
ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

WATER DETAILS

CITY OF FRUITLAND PARK THE FRIENDLY CITY

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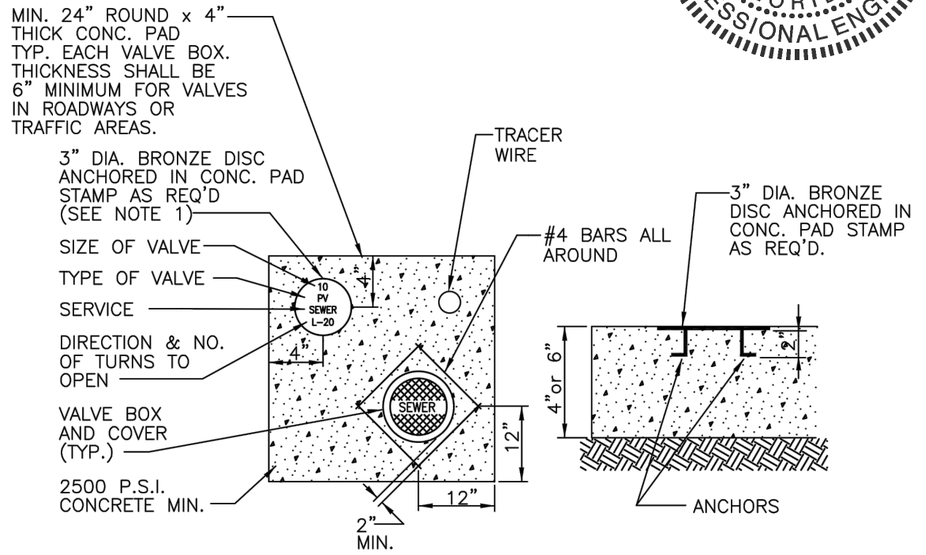
PLUG VALVE & BOX

NOT TO SCALE

FRUITLAND PARK THE FRIENDLY CITY	City of Fruitland Park Standard Details	JANUARY 2020
		Detail S–12

SEPT. 06, 2023

DUANE K. BOOTH LICENSE No. 44631 STATE OF FLORIDA PROFESSIONAL ENGINEER



NOTES:
1. BRONZE IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES

VALVE COLLAR

NOT TO SCALE

FRUITLAND PARK THE FRIENDLY CITY	City of Fruitland Park Standard Details	JANUARY 2020
		Detail S–14

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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CITY OF FRUITLAND PARK
COUNTY ROAD 466A UTILITY EXTENSIONS
PHASE 3B

ROAD NO.	COUNTY	PROJECT NUMBER
CR 466A	LAKE	043866.101

SANITARY SEWER DETAILS

CITY OF FRUITLAND PARK THE FRIENDLY CITY

SHEET NO.
U-50

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