PROJECT REFERENCE NO.	SHEET NO.
R-5014	UC-8

DESIGNED BY: DMD
DRAWN BY: DMD/MNG
CHECKED BY: JDB
APPROVED BY: CMT
REVISED:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
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NORTH CAROLINA PROFESSIONAL SEAL 028186 ENGINEER JOHN D. BOYER
John Boyer
2021.09.13 17:54:16-04'00'
UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

THIS SHEET CORRESPONDS TO RDY-10

8/17/99

REVISIONS

50' 25' 0' 50' 100'
PLANS

SEE SHEET 18 AND 19 FOR -WL3- PROFILE

NAD 83/NA 2011

PROP. 12"-11¼° BEND
-WL3- STA. 1+71.39

PROP. 12"-11¼° BEND
-WL3- STA. 2+51.39

PROP. 12"x8"-TEE
-WL3- STA. 2+91.61

PROP. 12" VALVE
-WL3- STA. 3+05.91

PROP. 12"-22½° BEND
-WL3- STA. 3+90.99

PROP. 12"-45° BEND
-WL3- STA. 6+55.69

PROP. 12"-45° BEND
-WL3- STA. 6+47.71

RECONNECT WATER METER

PROP. 12"-22½° BEND
-WL3- STA. 4+20.23

RECONNECT WATER METER

PROP. 12"x6"-TEE
-WL3- STA. 3+20.22

RELOCATE FIRE HYDRANT WITH
PROP. 20' OF 6" WATERLINE
PROP. 6" VALVE
SEE DETAIL E ON SHEET UC-3B

PROP. THRUST COLLAR
FOR 8" WATER LINE
SEE DETAIL A ON SHEET UC-3E

CONNECT TO EXIST. 8" DI WATER LINE
WITH A 8" MJ SLEEVE
-WL3- STA. 2+91.47

PROP. 8" VALVE
-WL3- STA. 2+91.61
SEE DETAILS C AND D ON
SHEET UC-3C (TYP)

PROP. 20' OF 8" WATERLINE
C900 PVC

EXISTING ROW

MATCH LINE -L- STA. 93+00.00
SEE SHEET UC-7

PROP. 12"-11¼° BEND
-WL3- STA. 14+19.71

PROP. WATER METER
SEE DETAIL A ON
SHEET UC-3B (TYP)

PROP. ROW

PROP. 12"-11¼° BEND
-WL3- STA. 13+19.71

PROP. CONCRETE CRADLE

14 CY OF REINFORCED CONCRETE
ENCASEMENT AND SUPPORTS.

CLASS AA CONCRETE
OVER PROP. (2)-60" CMP
SEE SECTION A AND
DETAIL C ON SHEET UC-3F

PROP. 12" AIR RELEASE
-WL3- STA. 12+91.74
SEE DETAIL E
SHEET UC-3D

PROP. 12"-22½° BEND
-WL3- STA. 12+19.84

PROP. WATER METER

PROP. 12"-45° BEND
-WL3- STA. 11+10.65

PROP. 12"-45° BEND
-WL3- STA. 11+01.29

PROP. 43' OF 16" ENCASEMENT
INSTALLED BY OPEN CUT
SEE DETAIL F ON SHEET UC-3D
-WL3- STA. 10+51 TO 10+94
PROP. 50' OF 12" FUSIBLE PVC
SEE NOTE 8
-WL3- STA. 10+48 TO 10+98

RECONNECT WATER METER
SEE DETAIL A ON
SHEET UC-3B (TYP)

PROP. 12"-11¼° BEND
-WL3- STA. 13+59.71

PROP. 12"-45° BEND
-WL3- STA. 10+45.10

PROP. 12"-45° BEND
-WL3- STA. 10+40.03

PROP. 12" VALVE
-WL3- STA. 10+19.37

PROP. 12"-11¼° BEND
-WL3- STA. 10+09.37

ABANDON 1431' OF 8" UTILITY PIPE
EXIST. 8" AC WATER LINE
SEE NOTES 1 & 2
-L- STA. 93+00 TO 107+50

RECONNECT WATER METER

PROP. 1539' OF 12" WATERLINE
SEE DETAIL F ON SHEET UC-3C

PROP. ROW

RECONNECT WATER METER

PROP. 12"-11¼° BEND
-WL3- STA. 7+23.75

RELOCATE FIRE HYDRANT
PROP. 15' OF FIRE HYDRANT LEG
PROP. 6" VALVE
-WL3- STA. 6+60.84
SEE DETAIL E ON SHEET UC-3B

PROP. 12"x6"-TEE
-WL3- STA. 6+60.95

PROP. 12"-11¼° BEND
-WL3- STA. 14+73.00

PROP. 12" VALVE
-WL3- STA. 15+25.51

PROP. 20' OF 6" WATERLINE
C900 PVC

PROP. 6" VALVE
-WL3- STA. 15+42.12

PROP. THRUST COLLAR
FOR 6" WATER LINE
SEE DETAIL A
ON SHEET UC-3E

CONNECT TO EXIST.
6" WATER LINE WITH A
6" TRANSITION COUPLING

EXIST. 6" PVC
WATER LINE

PROP. 12"-11¼° BEND
-WL3- STA. 15+33.00

PROP. 12"x6"-TEE
-WL3- STA. 15+41.33

PROP. 12"-11¼° BEND
-WL3- STA. 16+06.09

MATCH LINE -L- STA. 107+50.00
SEE SHEET UC-9

PROPOSED 6,475 POUNDS OF
DUCTILE IRON WATER PIPE FITTINGS

NOTE:
1. THE EXISTING 8" AC WATERLINE, ON THE SOUTH SIDE OF COLINGTON ROAD, IS TO REMAIN IN SERVICE DURING THE CONSTRUCTION OF THE PROPOSED 12" PVC WATERLINE. THE CONTRACTOR IS RESPONSIBLE TO PROTECT THE EXISTING WATERLINE DURING CONSTRUCTION.
2. AFTER COMPLETION OF THE PROPOSED 12" PVC WATERLINE, THE EXISTING 8" AC WATERLINE IS TO BE ABANDONED IN PLACE AND FILLED WITH GROUT FROM -L- STA. 41+83 TO -L- STA. 211+55,PER THE SPECIAL PROVISIONS SECTION OF THE SPECIFICATIONS.
3. ALL PROPOSED WATERLINE SHALL BE 12" C900 PVC.
4. ALL PIPE FITTINGS SHALL BE DUCTILE IRON.
5. REFER TO THE RESTRAINED JOINT DETAIL ON SHEET UC-3G FOR RESTRAINED JOINT LENGTHS.
6. ELEVATION OF EXISTING WATERLINES ARE ASSUMED TO BE 3-FEET BELOW EXISTING GRADE. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF THE EXISTING WATERLINE PRIOR TO MAKING THE CONNECTION.
7. CONNECTIONS TO EXISTING WATERLINE ARE TO BE RESTRAINED BY THRUST COLLARS. SEE DETAIL A ON SHEET UC-3E.
8. WITH APPROVAL FROM THE NCDOT ENGINEER, IN AREAS WHERE THE RIGHT-OF-WAY IS BOUNDED BY WETLANDS OR CONSERVATION AREA, SUSPEND THE FUSIBLE PVC PIPE STRING WITH A BACKHOE OR CRANE OVER THE SENSITIVE AREA FOR PULL-IN. FOR AREAS OF PRIVATE PROPERTY, THE CONTRACTOR SHALL UTILIZE THE CARTRIDGE METHOD, MULTIPLE SHORT PIPES WITH FUSION IN THE PIT.