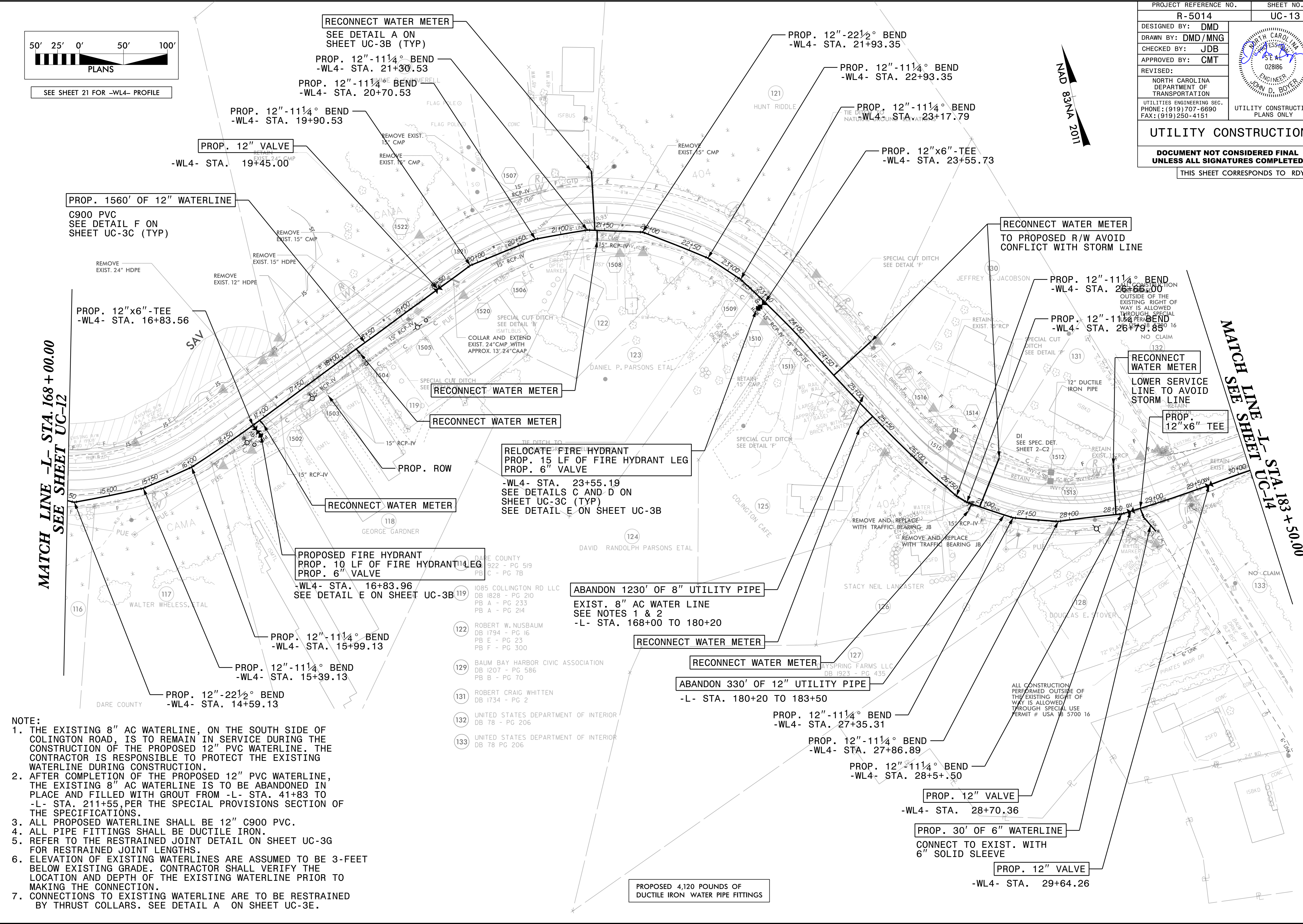
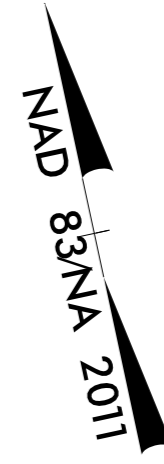
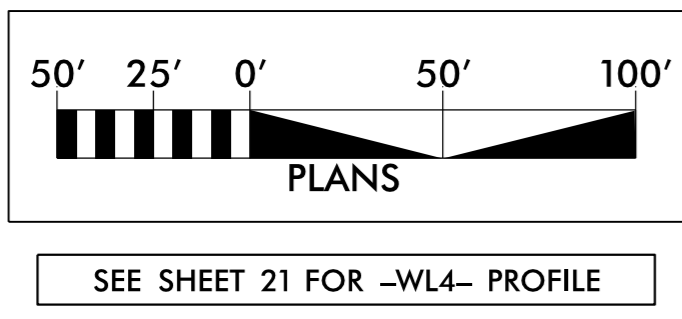


PROJECT REFERENCE NO.	SHEET NO.
R-5014	UC-13
DESIGNED BY: DMD	
DRAWN BY: DMD/MNG	
CHECKED BY: JDB	
APPROVED BY: CMT	
REVISED:	UTILITY CONSTRUCTION PLANS ONLY
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
THIS SHEET CORRESPONDS TO RDY-15	



- 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.

- 1085 COLLINGTON RD LLC
DB 1828 - PG 210
PB A - PG 233
PB A - PG 214
- 122 ROBERT W. NUSBAUM
DB 1794 - PG 16
PB E - PG 23
PB F - PG 300
- 129 BAUM BAY HARBOR CIVIC ASSOCIATION
DB 1207 - PG 586
PB B - PG 70
- 131 ROBERT CRAIG WHITTEN
DB 1734 - PG 2
- 132 UNITED STATES DEPARTMENT OF INTERIOR
DB 78 - PG 206
- 133 UNITED STATES DEPARTMENT OF INTERIOR
DB 78 PG 206

REVISIONS

SYSTEM: R5014_U1_UC13_psh.dgn
 USER: GYANTMAN

PROJECT REFERENCE NO.	SHEET NO.
R-5014	UC-14
DESIGNED BY: DMD	
DRAWN BY: DMD/MNG	
CHECKED BY: JDB	
APPROVED BY: CMT	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

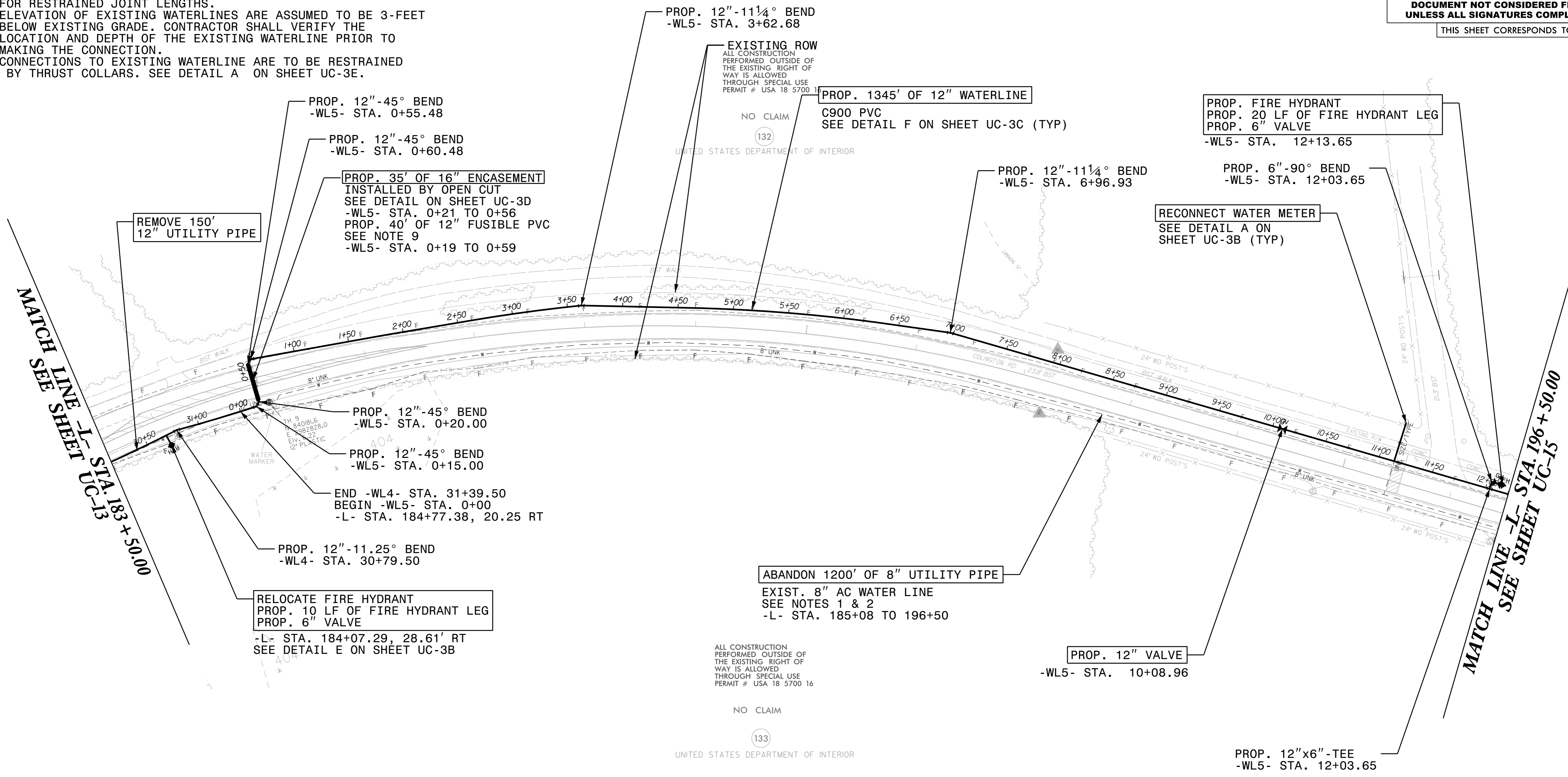
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

THIS SHEET CORRESPONDS TO RDY-16

NOTE:

- 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.
- 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.
- ALL PROPOSED WATERLINE SHALL BE 12" C900 PVC.
- ALL PIPE FITTINGS SHALL BE DUCTILE IRON.
- REFER TO THE RESTRAINED JOINT DETAIL ON SHEET UC-3G FOR RESTRAINED JOINT LENGTHS.
- 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.
- CONNECTIONS TO EXISTING WATERLINE ARE TO BE RESTRAINED BY THRUST COLLARS. SEE DETAIL A ON SHEET UC-3E.

- CONTRACTOR TO NOTIFY NCDOT AT LEAST 24 HOURS BEFORE EACH DAY WORK IS INTENDED NEAR THE AIRPORT RUNWAY (-L- STA. 191+50 TO 196+50). NCDOT WILL TAKE NECESSARY ACTIONS TO GET A NOTICE TO AIRMEN (NOTAM) ISSUED. CONTRACTOR WILL CONFIRM WITH NCDOT THAT A NOTAM HAS BEEN ISSUED BEFORE COMMENCING WORK NEAR THE AIRPORT RUNWAY.
- 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.



REMOVE 150' 12" UTILITY PIPE

PROP. 12"-45° BEND
-WL5- STA. 0+55.48

PROP. 12"-45° BEND
-WL5- STA. 0+60.48

PROP. 35' OF 16" ENCASEMENT
INSTALLED BY OPEN CUT
SEE DETAIL ON SHEET UC-3D
-WL5- STA. 0+21 TO 0+56
PROP. 40' OF 12" FUSIBLE PVC
SEE NOTE 9
-WL5- STA. 0+19 TO 0+59

PROP. 12"-11 1/4° BEND
-WL5- STA. 3+62.68

EXISTING ROW
ALL CONSTRUCTION PERFORMED OUTSIDE OF THE EXISTING RIGHT OF WAY IS ALLOWED THROUGH SPECIAL USE PERMIT # USA 18 5700 11

PROP. 1345' OF 12" WATERLINE
C900 PVC
SEE DETAIL F ON SHEET UC-3C (TYP)

PROP. FIRE HYDRANT
PROP. 20 LF OF FIRE HYDRANT LEG
PROP. 6" VALVE
-WL5- STA. 12+13.65

PROP. 12"-11 1/4° BEND
-WL5- STA. 6+96.93

PROP. 6"-90° BEND
-WL5- STA. 12+03.65

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

MATCH LINE -L- STA. 183+50.00
SEE SHEET UC-13

PROP. 12"-45° BEND
-WL5- STA. 0+20.00

PROP. 12"-45° BEND
-WL5- STA. 0+15.00

END -WL4- STA. 31+39.50
BEGIN -WL5- STA. 0+00
-L- STA. 184+77.38, 20.25 RT

PROP. 12"-11.25° BEND
-WL4- STA. 30+79.50

RELOCATE FIRE HYDRANT
PROP. 10 LF OF FIRE HYDRANT LEG
PROP. 6" VALVE
-L- STA. 184+07.29, 28.61' RT
SEE DETAIL E ON SHEET UC-3B

ABANDON 1200' OF 8" UTILITY PIPE
EXIST. 8" AC WATER LINE
SEE NOTES 1 & 2
-L- STA. 185+08 TO 196+50

ALL CONSTRUCTION PERFORMED OUTSIDE OF THE EXISTING RIGHT OF WAY IS ALLOWED THROUGH SPECIAL USE PERMIT # USA 18 5700 16

NO CLAIM

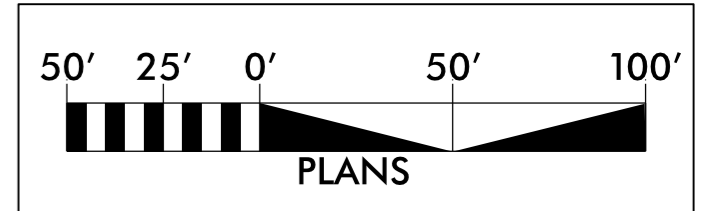
133

UNITED STATES DEPARTMENT OF INTERIOR

PROP. 12" VALVE
-WL5- STA. 10+08.96

PROP. 12"x6"-TEE
-WL5- STA. 12+03.65

MATCH LINE -L- STA. 196+50.00
SEE SHEET UC-15



PROPOSED 1,930 POUNDS OF DUCTILE IRON WATER PIPE FITTINGS

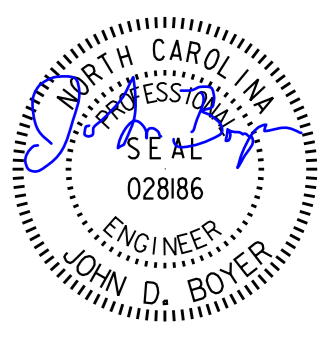
SEE SHEET 21 FOR -WL4- PROFILE

SEE SHEETS 21 AND 22 FOR -WL5- PROFILE

REVISIONS

8/17/99

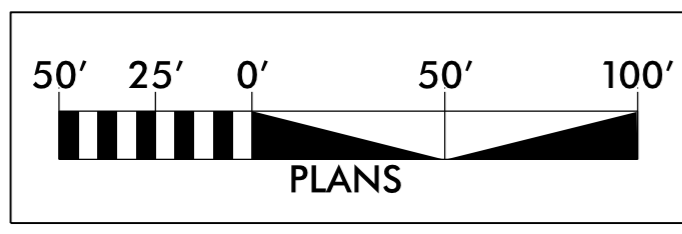
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PROJECT REFERENCE NO.	SHEET NO.
R-5014	UC-15
DESIGNED BY: DMD	
DRAWN BY: DMD/MNG	
CHECKED BY: JDB	
APPROVED BY: CMT	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

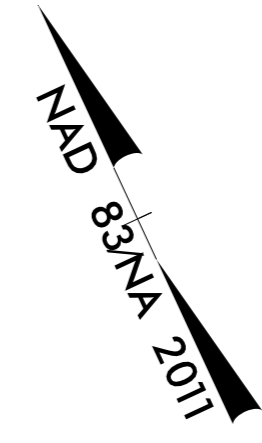
UTILITY CONSTRUCTION

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

THIS SHEET CORRESPONDS TO RDY-17



SEE SHEET 22 FOR -WL5- PROFILE



ALL CONSTRUCTION PERFORMED OUTSIDE OF THE EXISTING RIGHT OF WAY IS ALLOWED THROUGH SPECIAL USE PERMIT # USA 18 5700 16

NO CLAIM

132 UNITED STATES DEPARTMENT OF INTERIOR

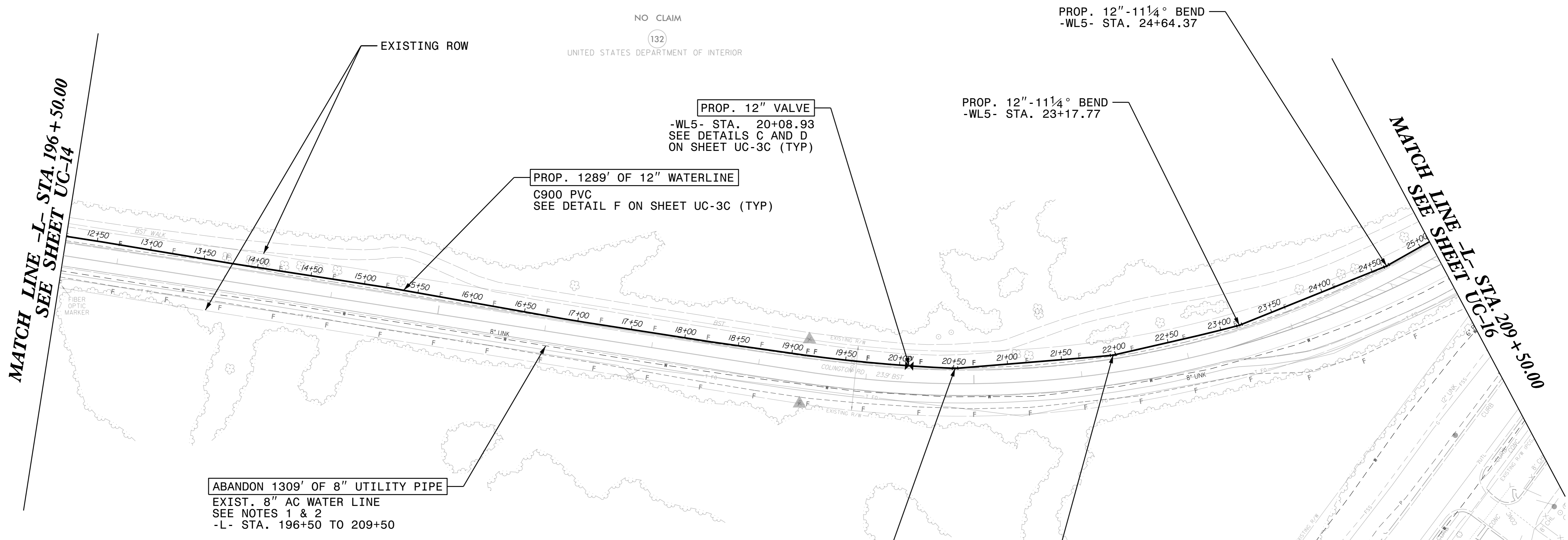
NO CLAIM

133 UNITED STATES DEPARTMENT OF INTERIOR

ALL CONSTRUCTION PERFORMED OUTSIDE OF THE EXISTING RIGHT OF WAY IS ALLOWED THROUGH SPECIAL USE PERMIT # USA 18 5700 16

MATCH LINE -L- STA. 196+50.00
SEE SHEET UC-14

MATCH LINE -L- STA. 209+50.00
SEE SHEET UC-16



ABANDON 1309' OF 8" UTILITY PIPE
EXIST. 8" AC WATER LINE
SEE NOTES 1 & 2
-L- STA. 196+50 TO 209+50

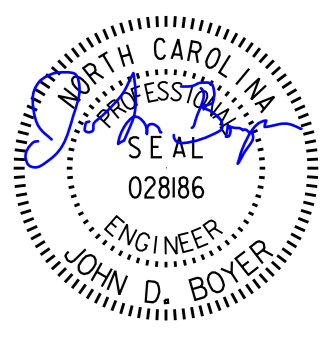
PROPOSED 880 POUNDS OF
DUCTILE IRON WATER PIPE FITTINGS

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.

REVISIONS

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-5014	UC-16
DESIGNED BY: DMD	
DRAWN BY: DMD/MNG	
CHECKED BY: JDB	
APPROVED BY: CMT	
REVISED:	UTILITY CONSTRUCTION PLANS ONLY
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

UTILITY CONSTRUCTION

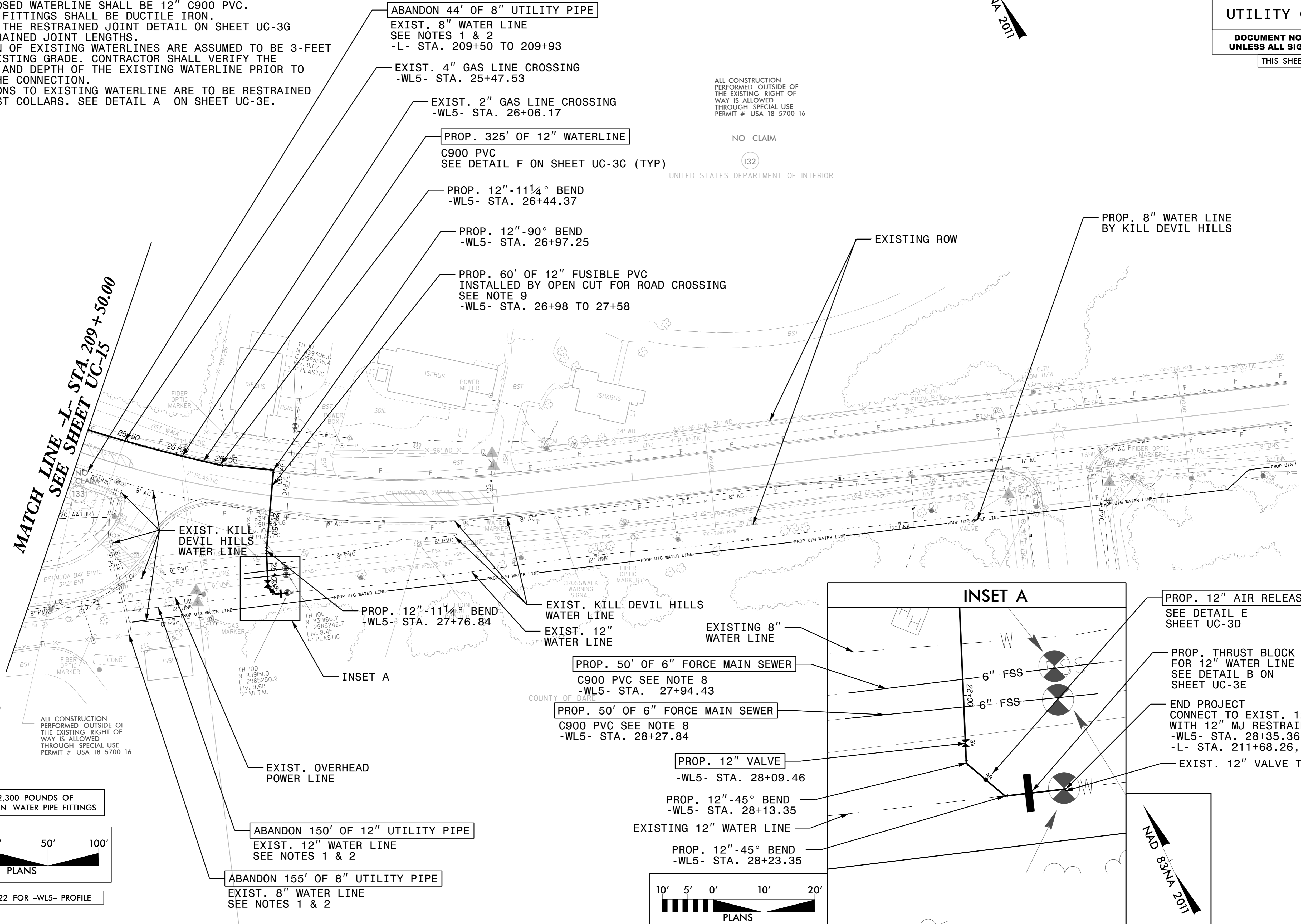
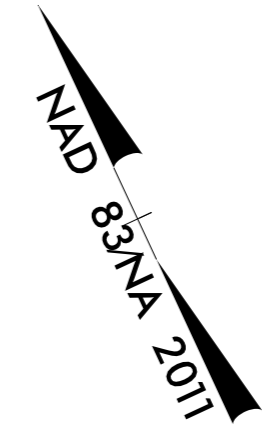
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UNLESS ALL SIGNATURES COMPLETED**

THIS SHEET CORRESPONDS TO RDY-18

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.
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7. CONNECTIONS TO EXISTING WATERLINE ARE TO BE RESTRAINED BY THRUST COLLARS. SEE DETAIL A ON SHEET UC-3E.

8. LOWER FORCE MAIN SEWER BELOW PROPOSED WATER LINE. USE FOUR 11.25° VERTICAL BENDS IN FORCE MAIN TO PROVIDE 18" VERTICAL CLEARANCE. FITTINGS SHALL BE RESTRAINED PER DETAIL B ON SHEET UC-3E. WORK ON THE SANITARY FORCE MAIN SHALL BE COORDINATED WITH THE UTILITY OWNER, KILL DEVIL HILLS WASTE WATER TREATMENT PLANT (KDHWWTP, LLC).
9. 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.



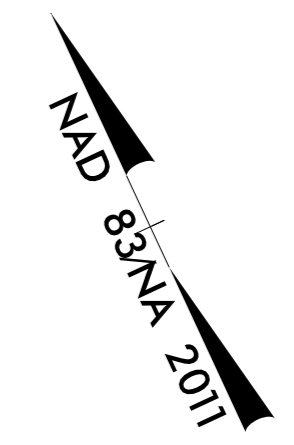
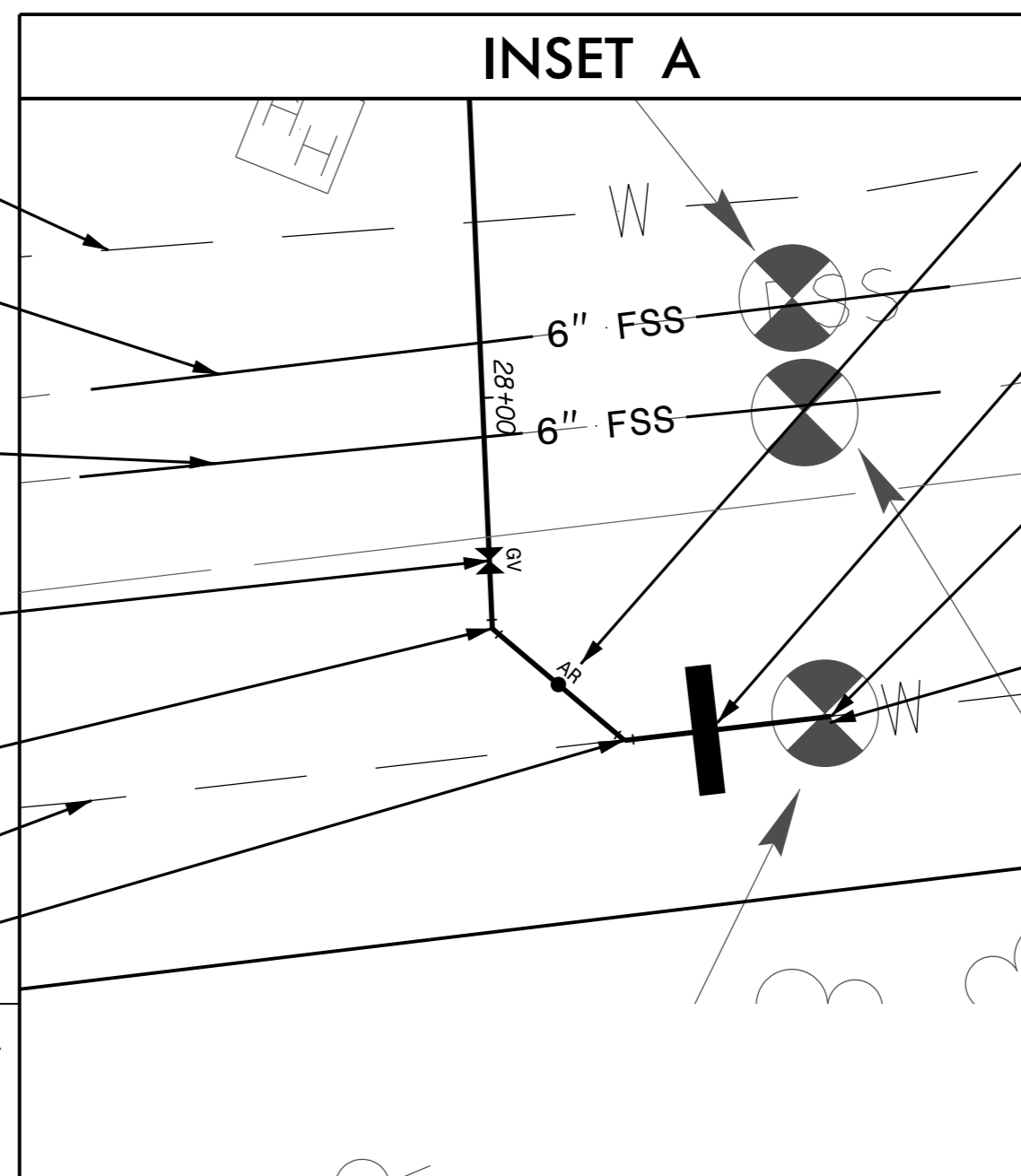
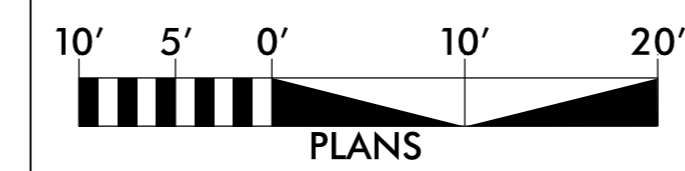
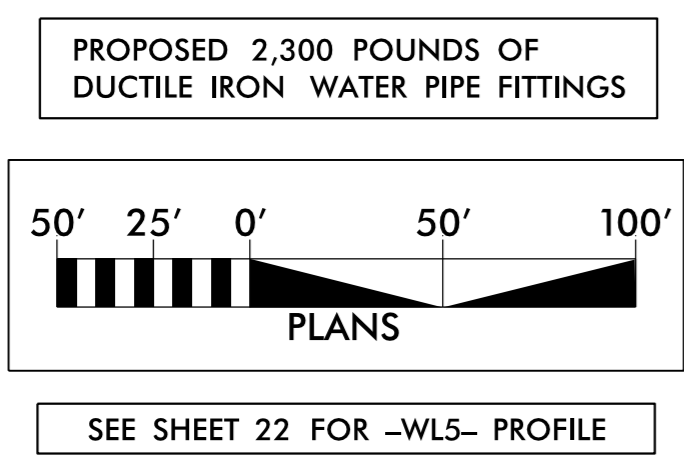
ALL CONSTRUCTION PERFORMED OUTSIDE OF THE EXISTING RIGHT OF WAY IS ALLOWED THROUGH SPECIAL USE PERMIT # USA 18 5700 16

NO CLAIM

132

UNITED STATES DEPARTMENT OF INTERIOR

MATCH LINE -L- STA. 209+50.00
SEE SHEET UC-15

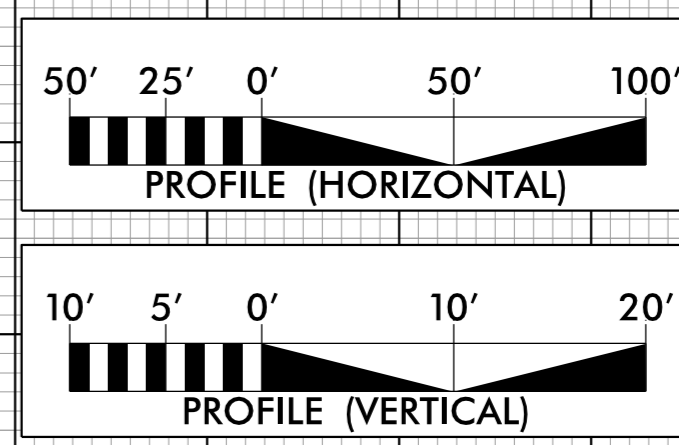


REVISIONS

8/17/99

5/28/99

-WL1-

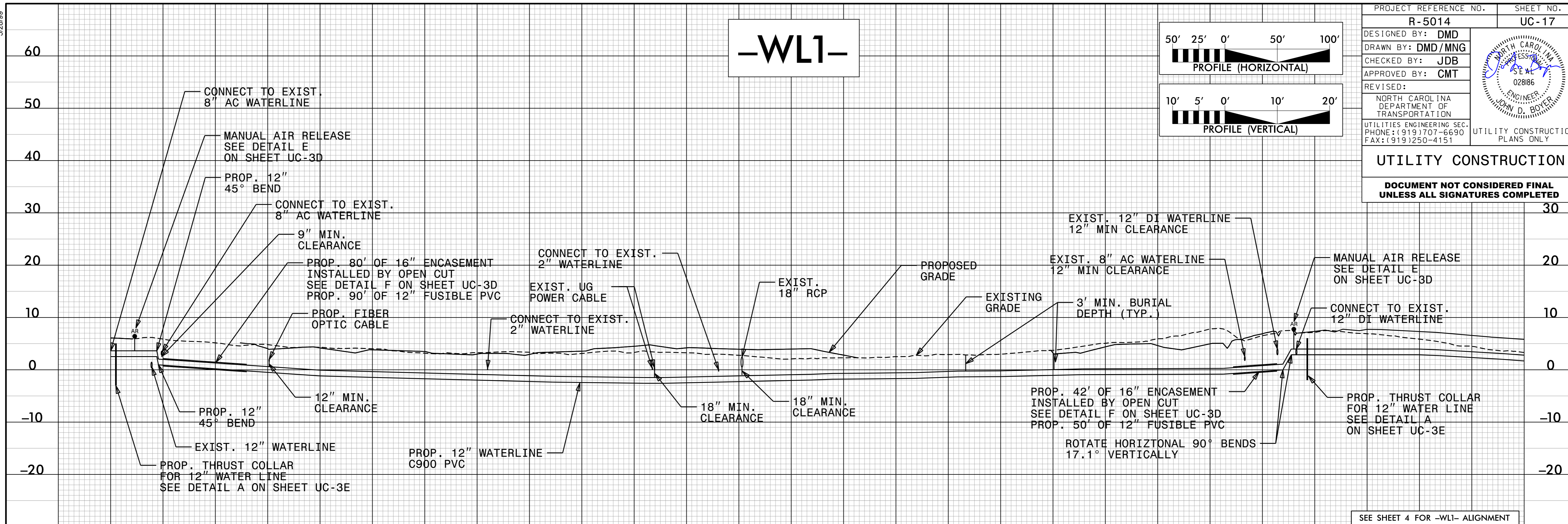


PROJECT REFERENCE NO. R-5014	SHEET NO. UC-17
DESIGNED BY: DMD	
DRAWN BY: DMD/MNG	
CHECKED BY: JDB	
APPROVED BY: CMT	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

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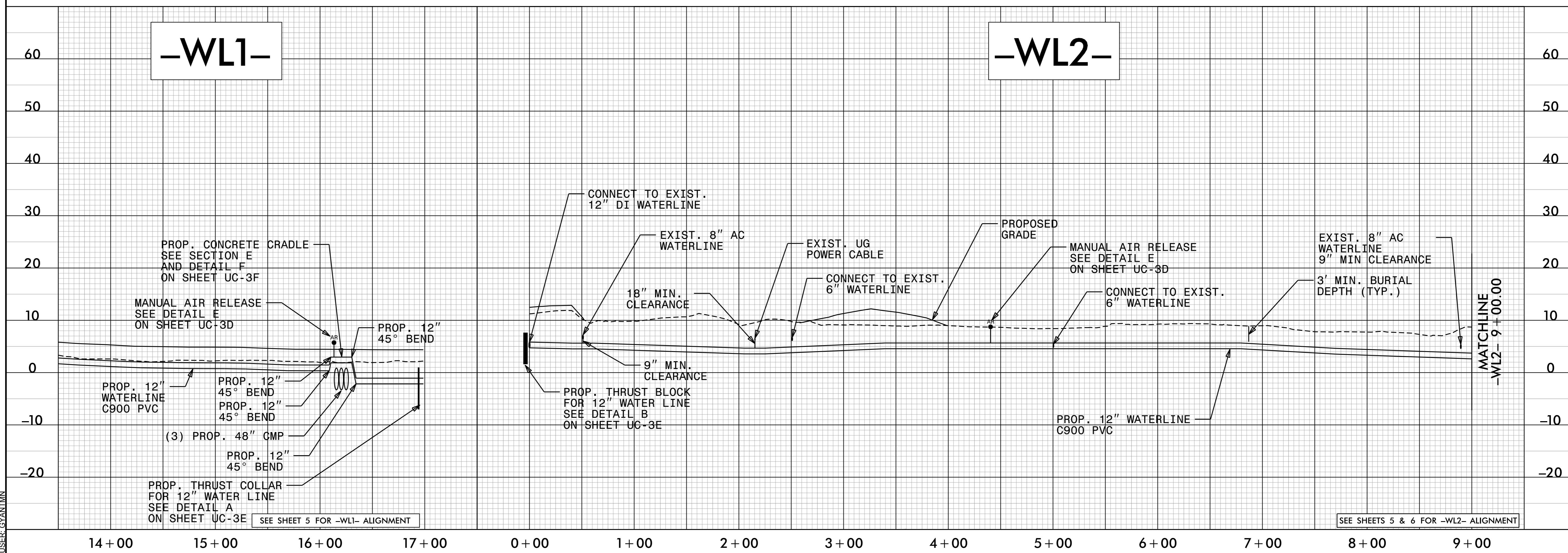
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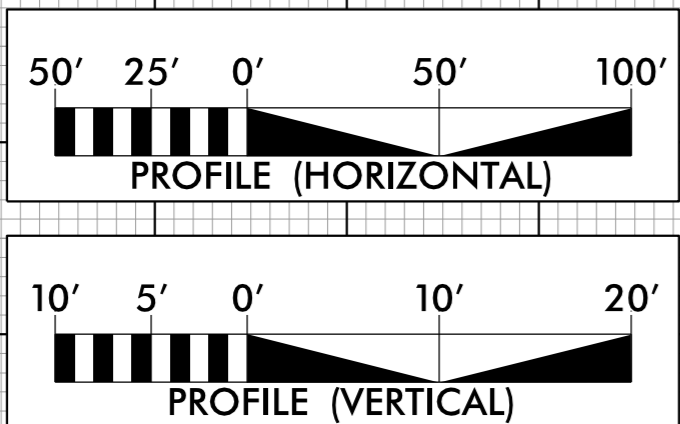
-WL1-

-WL2-

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5/28/99



-WL2-

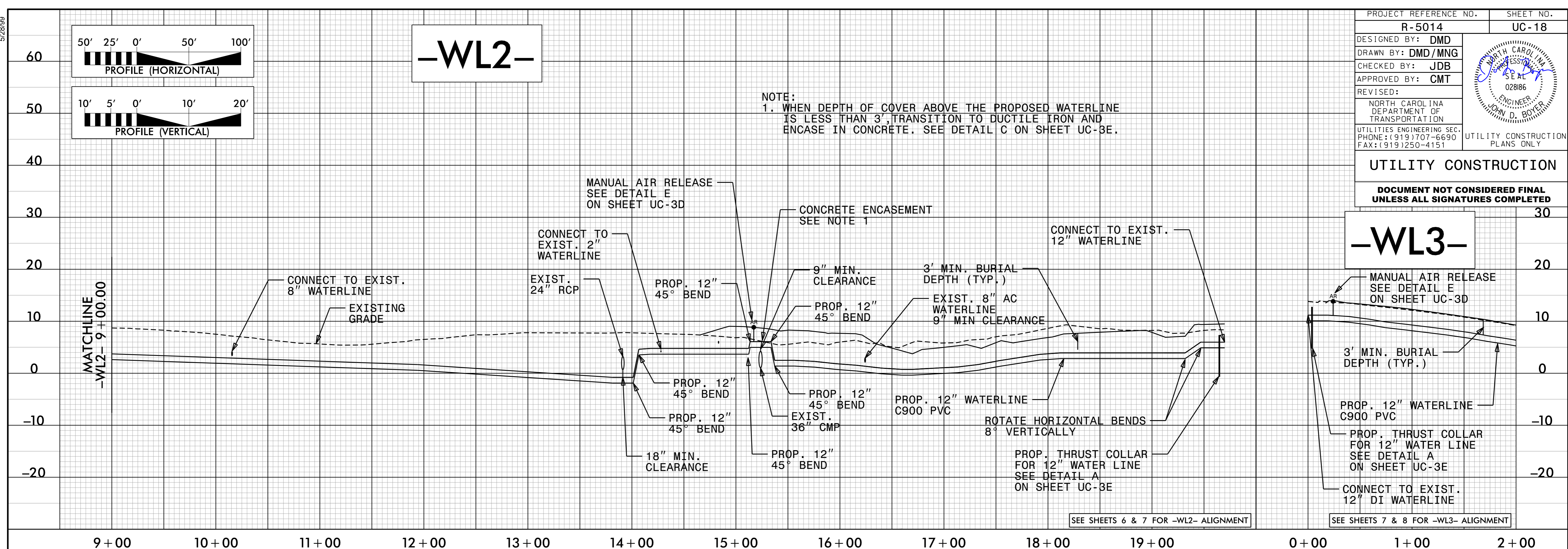
NOTE:
 1. WHEN DEPTH OF COVER ABOVE THE PROPOSED WATERLINE IS LESS THAN 3', TRANSITION TO DUCTILE IRON AND ENCASE IN CONCRETE. SEE DETAIL C ON SHEET UC-3E.

PROJECT REFERENCE NO.	SHEET NO.
R-5014	UC-18
DESIGNED BY: DMD	
DRAWN BY: DMD/MNG	
CHECKED BY: JDB	
APPROVED BY: CMT	
REVISED:	
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UTILITY CONSTRUCTION

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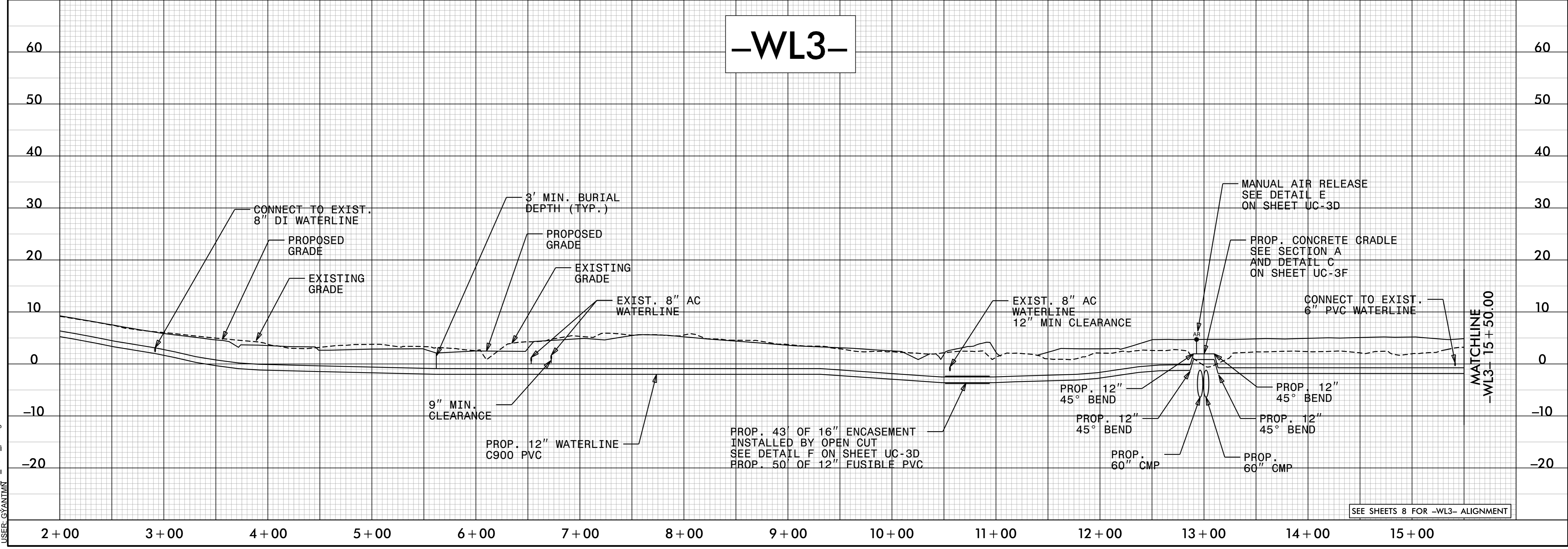
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SEE SHEETS 6 & 7 FOR -WL2- ALIGNMENT

SEE SHEETS 7 & 8 FOR -WL3- ALIGNMENT

-WL3-

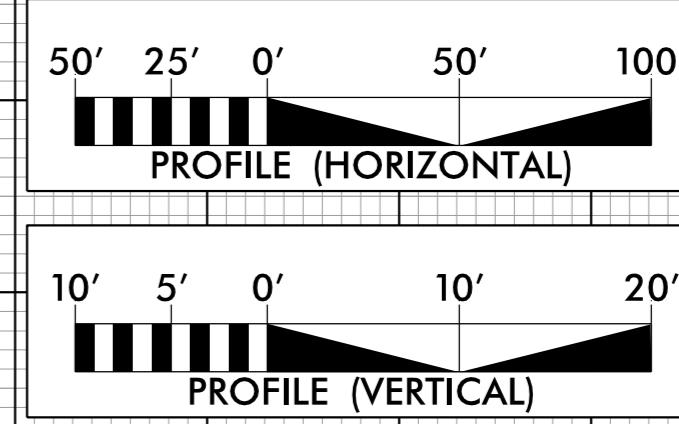


SEE SHEETS 8 FOR -WL3- ALIGNMENT

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5/28/99

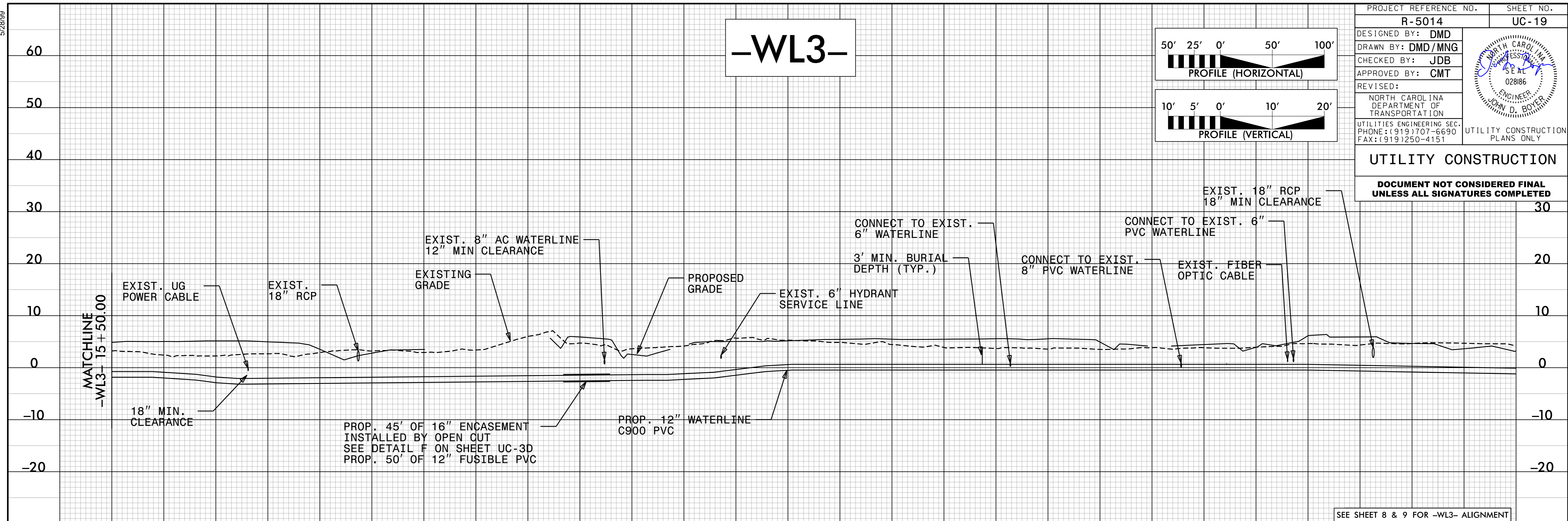
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PROJECT REFERENCE NO. R-5014	SHEET NO. UC-19
DESIGNED BY: DMD	
DRAWN BY: DMD/MNG	
CHECKED BY: JDB	
APPROVED BY: CMT	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

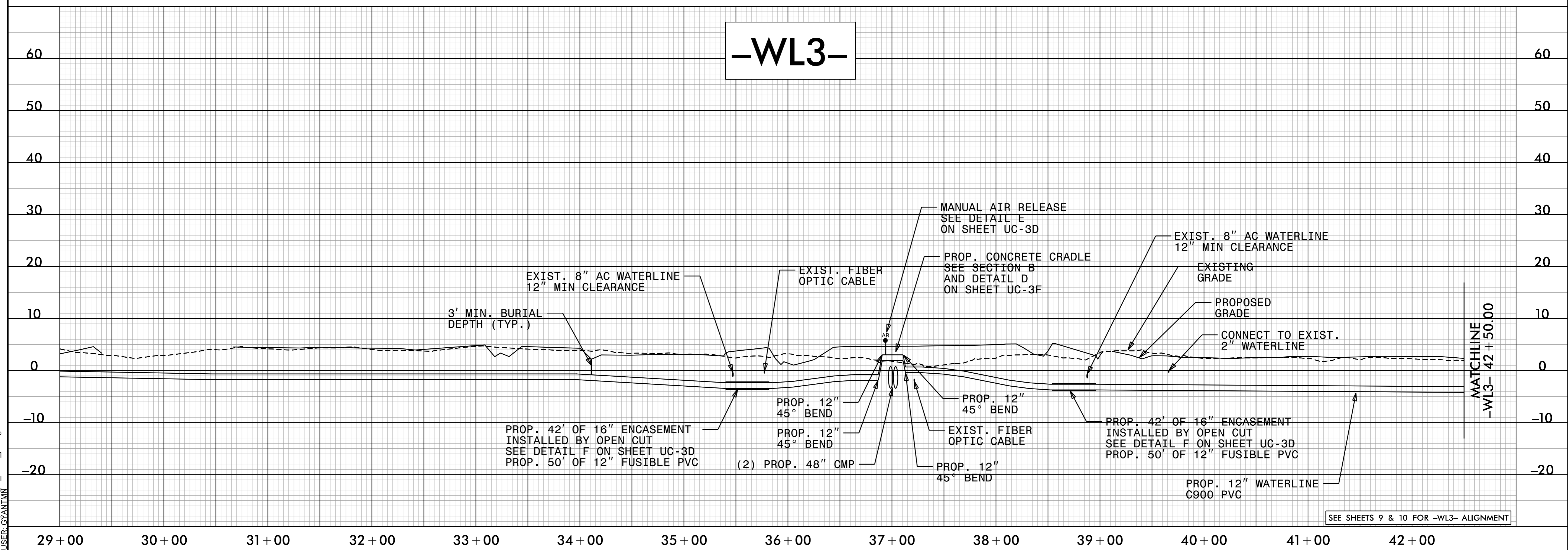
UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



SEE SHEET 8 & 9 FOR -WL3- ALIGNMENT

-WL3-



SEE SHEETS 9 & 10 FOR -WL3- ALIGNMENT

SYSTEM: R5014_U_UC19_psh.dgn
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