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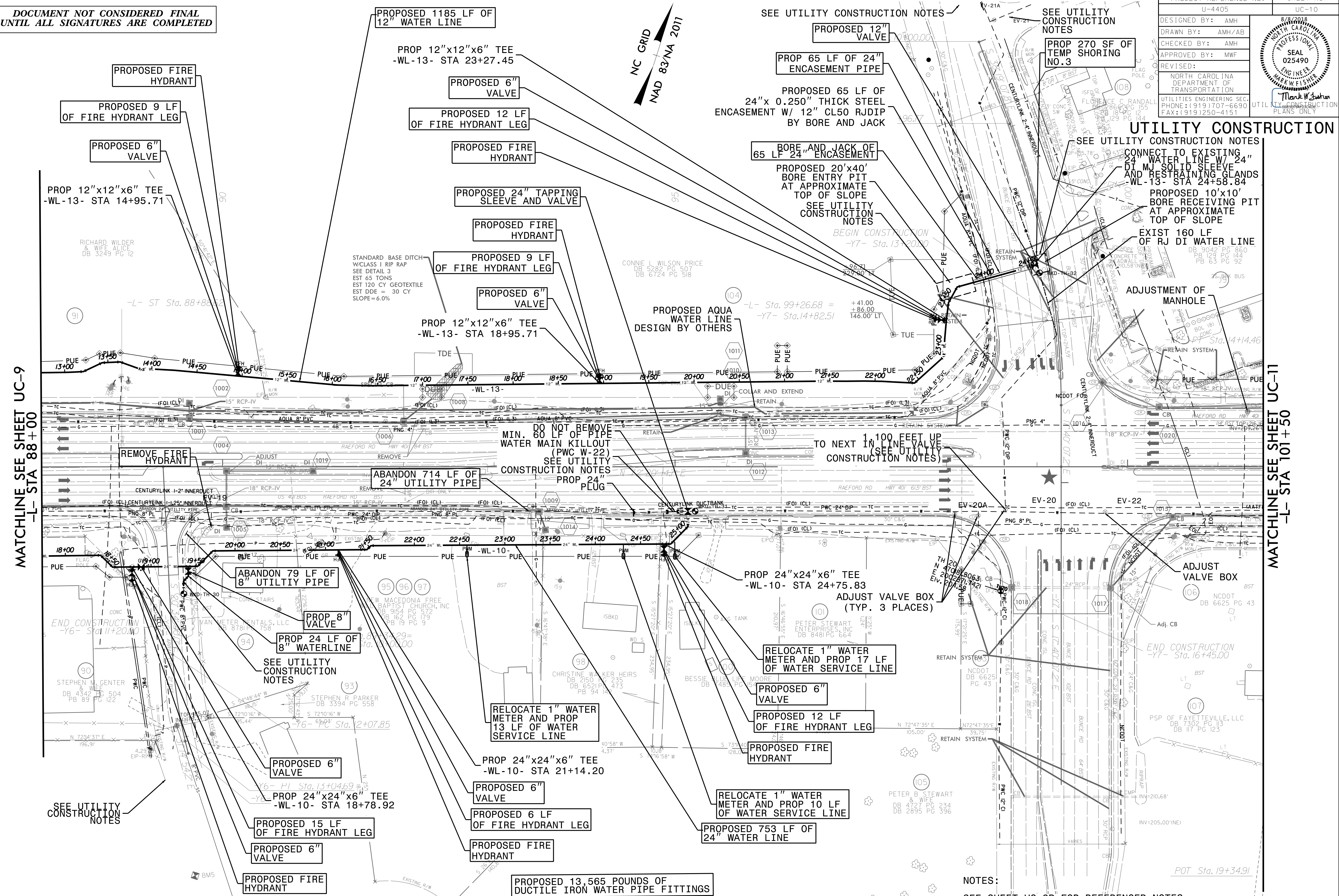
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07-AUC-2018 10.34 L:\Projects\Fayetteville Public Works Commission\2015\01700RA -Roeford Road NCDOT U-4405\CADD\NCDOT PLANS\Utilities\Engineering\UC\Proj\U4405_ut_rdlj10_uc10_psh.dgn 5/14/19

DOCUMENT NOT CONSIDERED FINAL UNTIL ALL SIGNATURES ARE COMPLETED

PROJECT REFERENCE NO.	U-4405	SHEET NO.	UC-10
DESIGNED BY:	AMH		
DRAWN BY:	AMH/AB		
CHECKED BY:	AMH		
APPROVED BY:	MWF		
REVISED:		UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	



MATCHLINE SEE SHEET UC-9
-L- STA 88+00

MATCHLINE SEE SHEET UC-11
-L- STA 101+50

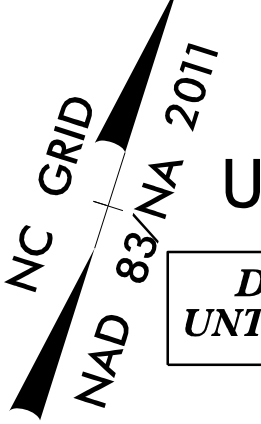
UTILITY CONSTRUCTION

NOTES:
 SEE SHEET UC-3B FOR REFERENCED NOTES
 SEE SHEET UC-37 FOR -WL-10- PROFILE
 SEE SHEET UC-38 AND UC-39 FOR -WL-13- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
U-4405	UC-11
DESIGNED BY: AMH	
DRAWN BY: AMH/AE	
CHECKED BY: AMH	
APPROVED BY: MWF	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

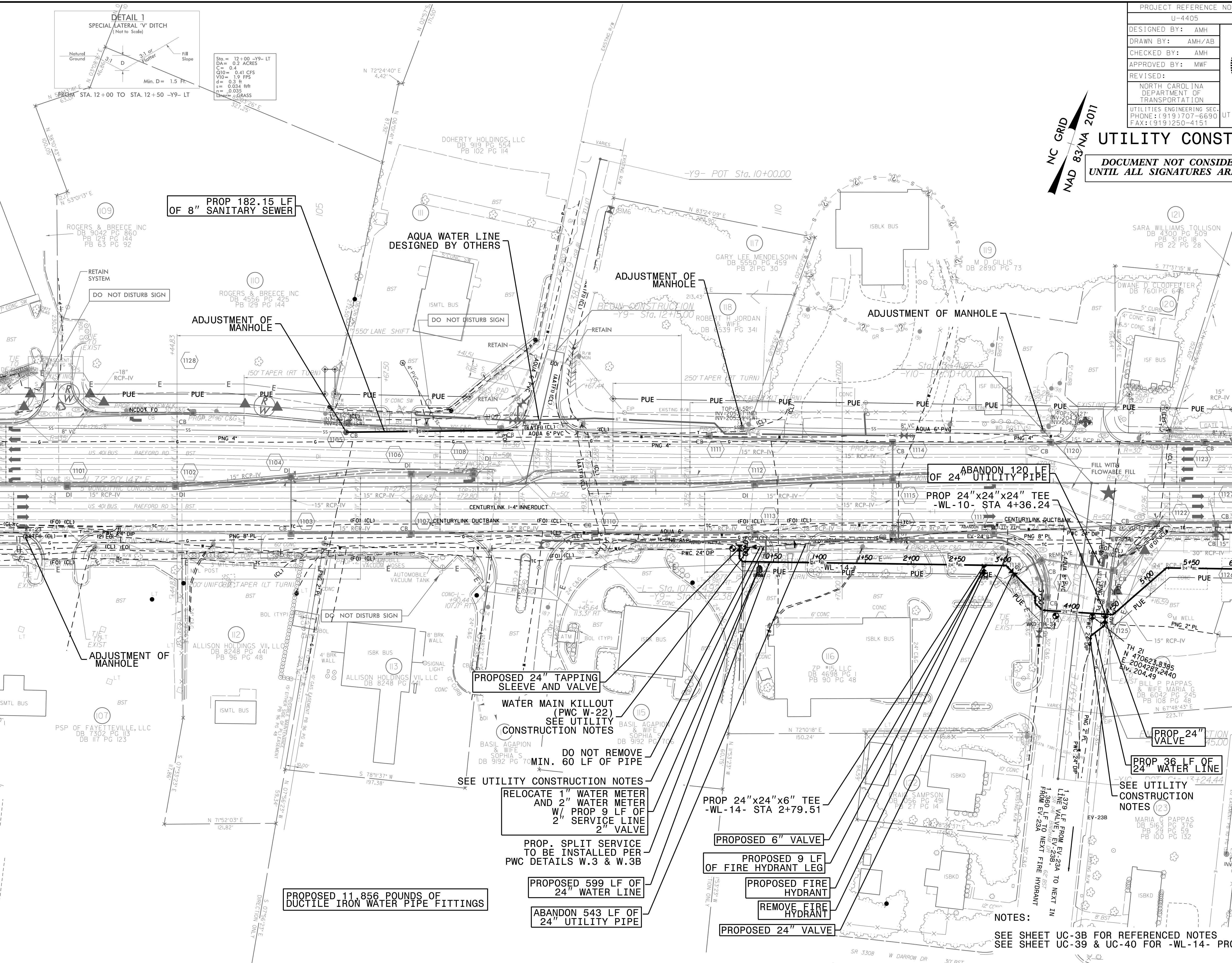
UTILITY CONSTRUCTION

**DOCUMENT NOT CONSIDERED FINAL
UNTIL ALL SIGNATURES ARE COMPLETED**



MATCHLINE SEE SHEET UC-10
-L- STA 101+50

MATCHLINE SEE SHEET UC-12
-L- STA 115+00



PROP 182.15 LF OF 8" SANITARY SEWER

AQUA WATER LINE DESIGNED BY OTHERS

ADJUSTMENT OF MANHOLE

ADJUSTMENT OF MANHOLE

ABANDON 120' OF 24" UTILITY PIPE

PROP 24"x24"x24" TEE -WL-10- STA 4+36.24

PROPOSED 24" TAPPING SLEEVE AND VALVE

WATER MAIN KILLOUT (PWC W-22) SEE UTILITY CONSTRUCTION NOTES

DO NOT REMOVE 60 LF OF PIPE SEE UTILITY CONSTRUCTION NOTES

RELOCATE 1" WATER METER AND 2" WATER METER W/ PROP 9 LF OF 2" SERVICE LINE 2" VALVE

PROP. SPLIT SERVICE TO BE INSTALLED PER PWC DETAILS W.3 & W.3B

PROPOSED 599 LF OF 24" WATER LINE

ABANDON 543 LF OF 24" UTILITY PIPE

PROPOSED 11,856 POUNDS OF DUCTILE IRON WATER PIPE FITTINGS

PROP 24"x24"x6" TEE -WL-14- STA 2+79.51

PROPOSED 6" VALVE

PROPOSED 9 LF OF FIRE HYDRANT LEG

PROPOSED FIRE HYDRANT

REMOVE FIRE HYDRANT

PROPOSED 24" VALVE

PROP 24" VALVE

PROP 36 LF OF 24" WATER LINE

SEE UTILITY CONSTRUCTION NOTES (23)

NOTES:
SEE SHEET UC-3B FOR REFERENCED NOTES
SEE SHEET UC-39 & UC-40 FOR -WL-14- PROFILE

5/14/99
3-MAY-2018 14:43
L:\Projects\Public Works\Commission\2015\017700RA - Roeford Road NCDOT U 4405\CADD\NCDOT PLANS\Utilities\Engineering\UC\Proj\U4405_uct12.uct12.psh.dgn
3-MAY-2018 14:43
L:\Projects\Public Works\Commission\2015\017700RA - Roeford Road NCDOT U 4405\CADD\NCDOT PLANS\Utilities\Engineering\UC\Proj\U4405_uct12.uct12.psh.dgn

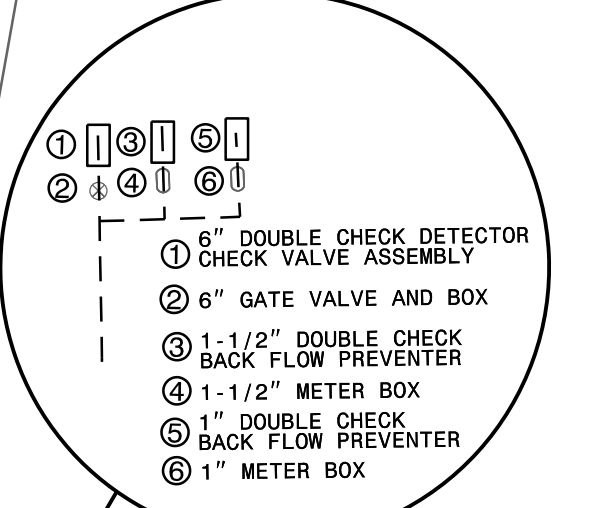
REMOVE VALVE AND MIN. OF 20 FEET OF PIPE AFTER WL-15 IS OPERABLE. CONNECT TO EXISTING 8" WATER LINE W/ 8" DI MJ SOLID SLEEVE AND RESTRAINING GLANDS AND LAY BACK MIN. OF 20 FEET OF RJ PIPE -WL-15- STA 1+72.31

DOCUMENT NOT CONSIDERED FINAL UNTIL ALL SIGNATURES ARE COMPLETED

PROJECT REFERENCE NO.	UC-12
DESIGNED BY:	AMH
DRAWN BY:	AMH/AB
CHECKED BY:	AMH
APPROVED BY:	MWF
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	UTILITY CONSTRUCTION PLANS ONLY
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

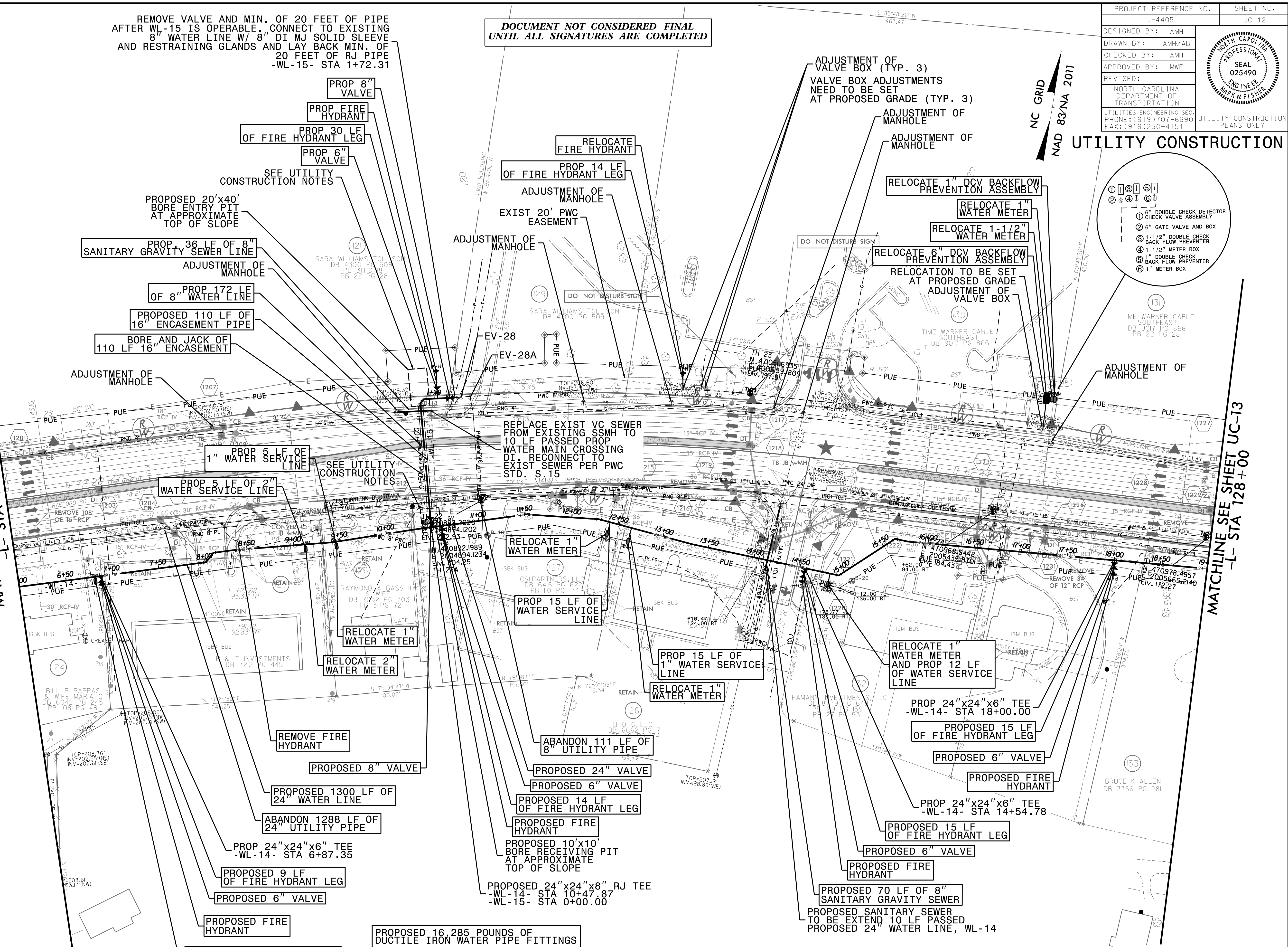


UTILITY CONSTRUCTION



MATCHLINE SEE SHEET UC-11 -L- STA 115+00

MATCHLINE SEE SHEET UC-13 -L- STA 128+00



NOTES:
SEE SHEET UC-39 AND UC-40 FOR -WL-14- PROFILE
SEE SHEET UC-40 FOR -WL-15- PROFILE

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UNTIL ALL SIGNATURES ARE COMPLETED

PROJECT REFERENCE NO.	U-4405	SHEET NO.	UC-13
DESIGNED BY:	AMH	DATE	8/3/2018
DRAWN BY:	AMH/AB	SEAL	025490
CHECKED BY:	AMH	ENGINEER	MARK W. FISHER
APPROVED BY:	MWF	PROFESSIONAL	
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		Mark W. Fisher	



UTILITY CONSTRUCTION

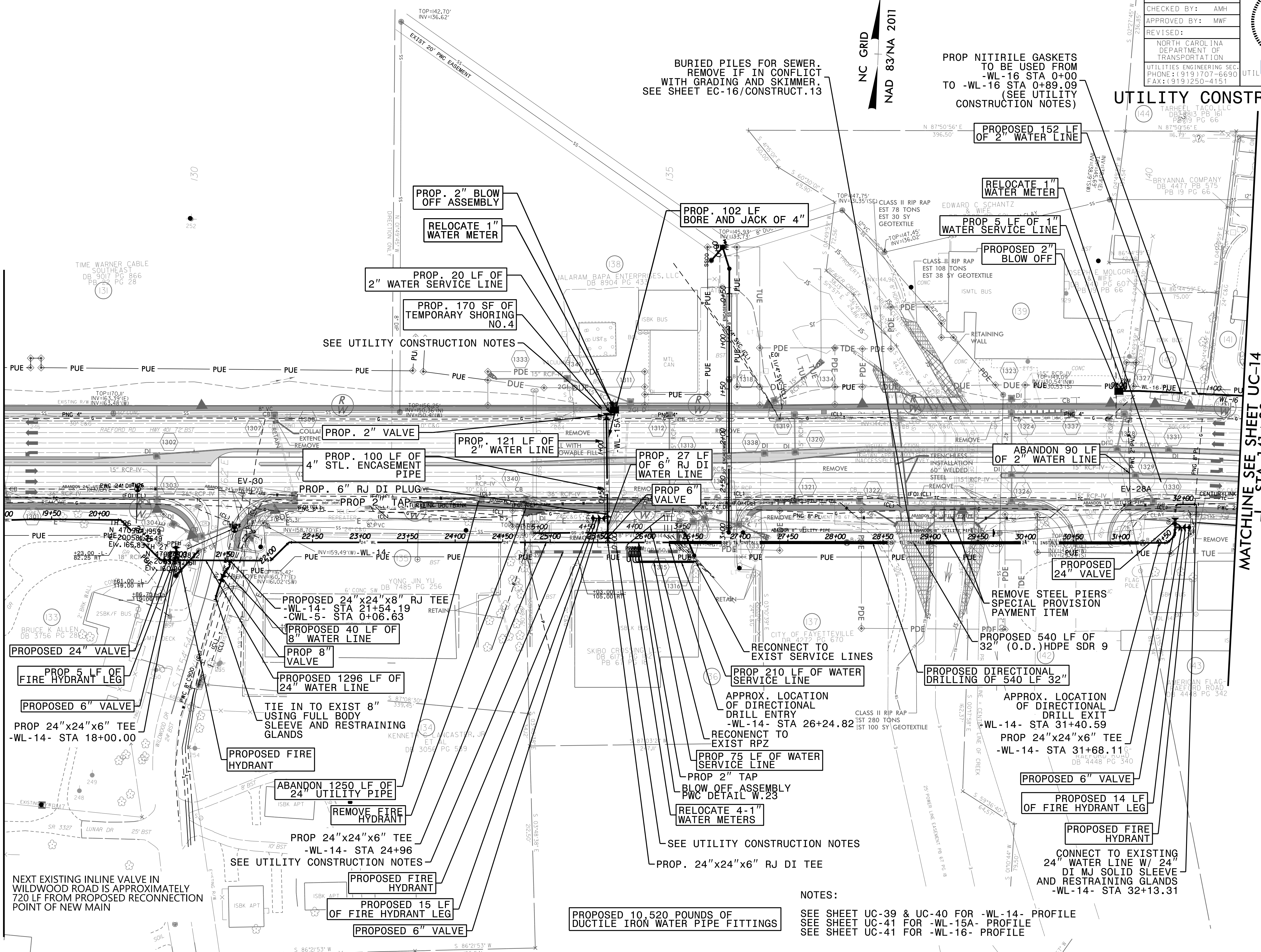
NC GRID
NAD 83/NA 2011

BURIED PILES FOR SEWER.
REMOVE IF IN CONFLICT
WITH GRADING AND SKIMMER.
SEE SHEET EC-16/CONSTRUCT.13

PROP NITRILE GASKETS
TO BE USED FROM
-WL-16 STA 0+00
TO -WL-16 STA 0+89.09
(SEE UTILITY
CONSTRUCTION NOTES)

MATCHLINE SEE SHEET UC-12
-L- STA 128+00

MATCHLINE SEE SHEET UC-14
-L- STA 141+00



REVISIONS

UTILITY REV. - JULY 24, 2018 - CANCELLED FROM BUREAU OF PUBLIC WORKS. REVISED DIRECTIONAL DRILL TO USE 32" HOPE SDR 9.

27-JUL-2018 14:46 Fayetteville Public Works Commission\Projects\2015017700RA_RoeferRoad_NCDOT_U-4405\CADD\NCDOT_PLANS\Utilities\Engineering\UC\Proj\U4405_ut_rdlj3_uc13_psh.dgn

NOTES:
SEE SHEET UC-39 & UC-40 FOR -WL-14- PROFILE
SEE SHEET UC-41 FOR -WL-15A- PROFILE
SEE SHEET UC-41 FOR -WL-16- PROFILE

PROPOSED 10,520 POUNDS OF
DUCTILE IRON WATER PIPE FITTINGS

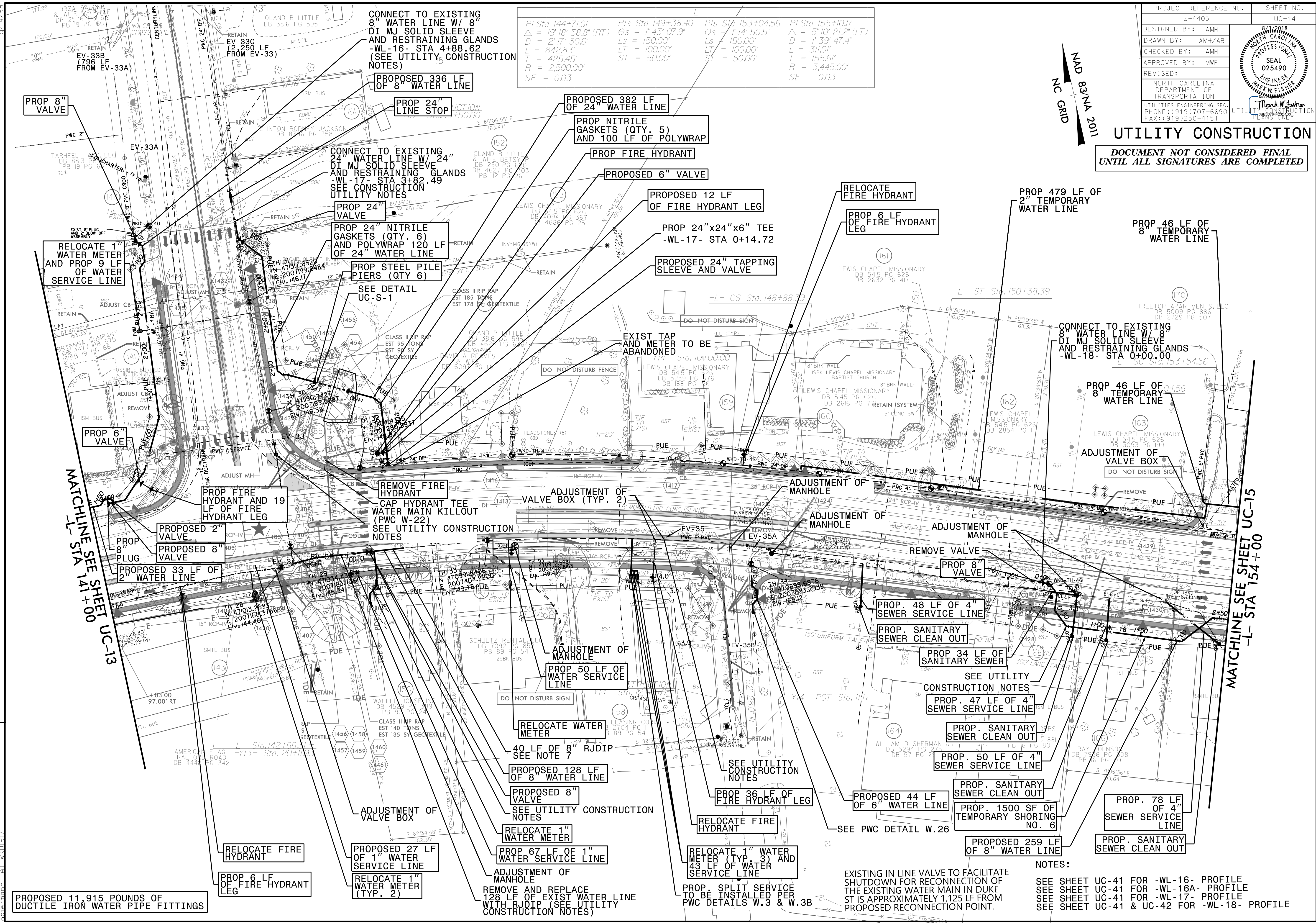
NEXT EXISTING INLINE VALVE IN
WILDWOOD ROAD IS APPROXIMATELY
720 LF FROM PROPOSED RECONNECTION
POINT OF NEW MAIN

PROJECT REFERENCE NO.	SHEET NO.
U-4405	UC-14
DESIGNED BY: AMH	
DRAWN BY: AMH/AB	
CHECKED BY: AMH	
APPROVED BY: MWF	
REVISED:	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

UTILITY CONSTRUCTION
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NAD 83/NA 2011
 NC GRID

Pl Sta 144+71.01 $\Delta = 19' 18" 58.8" (RT)$ $D = 2' 17" 30.6"$ $L = 842.83'$ $T = 425.45'$ $R = 2,500.00'$ $SE = 0.03$	Pls Sta 149+38.40 $\Delta s = 1' 43" 07.9"$ $Ls = 150.00'$ $LT = 100.00'$ $ST = 50.00'$	Pls Sta 153+04.56 $\Delta s = 1' 14" 50.5"$ $Ls = 150.00'$ $LT = 100.00'$ $ST = 50.00'$	Pl Sta 155+10.17 $\Delta = 5' 10" 21.2" (LT)$ $D = 1' 39" 47.4"$ $L = 311.01'$ $T = 155.61'$ $R = 3,445.00'$ $SE = 0.03$
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REVISIONS

UTILITY REV. - JULY 24, 2008 - NAMED TWO VALVES EV-35A AND EV-35B FOR CONSTRUCTION SEQUENCING NOTES

27-JUL-2018 14:14
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 W:\Projects\2015\017700RA Raeford Road NCDOT U-4405\CADD\NCDOT PLANS\Utilities\Engineering\UC\Proj\U4405-ut.rdl\4-uc14-ush.dgn

PROPOSED 11,915 POUNDS OF DUCTILE IRON WATER PIPE FITTINGS

NOTES:
 SEE SHEET UC-41 FOR -WL-16- PROFILE
 SEE SHEET UC-41 FOR -WL-16A- PROFILE
 SEE SHEET UC-41 FOR -WL-17- PROFILE
 SEE SHEET UC-41 & UC-42 FOR -WL-18- PROFILE

EXISTING IN LINE VALVE TO FACILITATE SHUTDOWN FOR RECONNECTION OF THE EXISTING WATER MAIN IN DUKE ST IS APPROXIMATELY 1,125 LF FROM PROPOSED RECONNECTION POINT.

PROP. SPLIT SERVICE TO BE INSTALLED PER PWC DETAILS W.3 & W.3B

REMOVE AND REPLACE 128 LF OF EXIST WATER LINE WITH RJDIP (SEE UTILITY CONSTRUCTION NOTES)

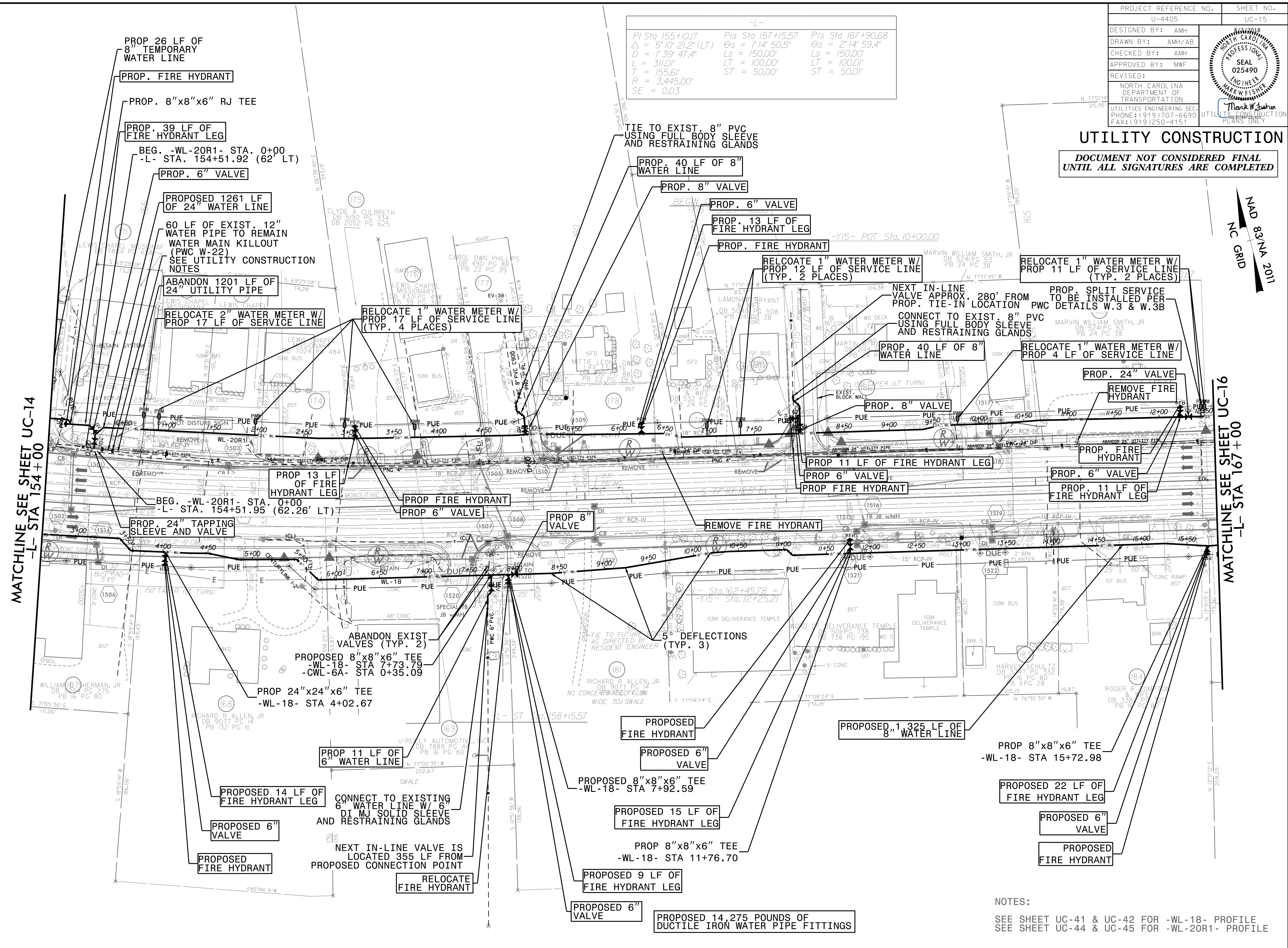
RELOCATE 1" WATER METER (TYP. 2)

RELOCATE FIRE HYDRANT

PROJECT REFERENCE NO.	SHEET NO.
U-4405	UC-15
DESIGNED BY: AMH	
DRAWN BY: AMH/AB	
CHECKED BY: AMH	
APPROVED BY: MWF	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SECTION PHONE: (919) 707-6690 FAX: (919) 250-4151	

UTILITY CONSTRUCTION
 DOCUMENT NOT CONSIDERED FINAL
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-L-
 PI Sta 155+10.17 PIs Sta 157+15.57 PIs Sta 167+90.68
 $\Delta = 5' 10" 21.2' (LT)$ $\Theta_s = 1' 14" 50.5'$ $\Theta_s = 2' 14" 59.4'$
 $D = 1' 39" 47.4'$ $L_s = 150.00'$ $L_s = 150.00'$
 $L = 311.01'$ $LT = 100.00'$ $LT = 100.01'$
 $T = 155.61'$ $ST = 50.00'$ $ST = 50.01'$
 $R = 3,445.00'$
 $SE = 0.03$



NOTES:
 SEE SHEET UC-41 & UC-42 FOR -WL-18- PROFILE
 SEE SHEET UC-44 & UC-45 FOR -WL-20R1- PROFILE

REVISIONS
 27-JUL-2018 14:15
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 1/14/99
 UTILITY REV. - JULY 24, 2008 - SHIFTED VALVE TO STA 8+00 ON WL-18 SO HYDRANT CAN BE USED AS FLUSHING POINT
 MATCHLINE SEE SHEET UC-14 -L- STA 154+00
 MATCHLINE SEE SHEET UC-16 -L- STA 167+00
 NAD 83/NA 2011
 NC GRID

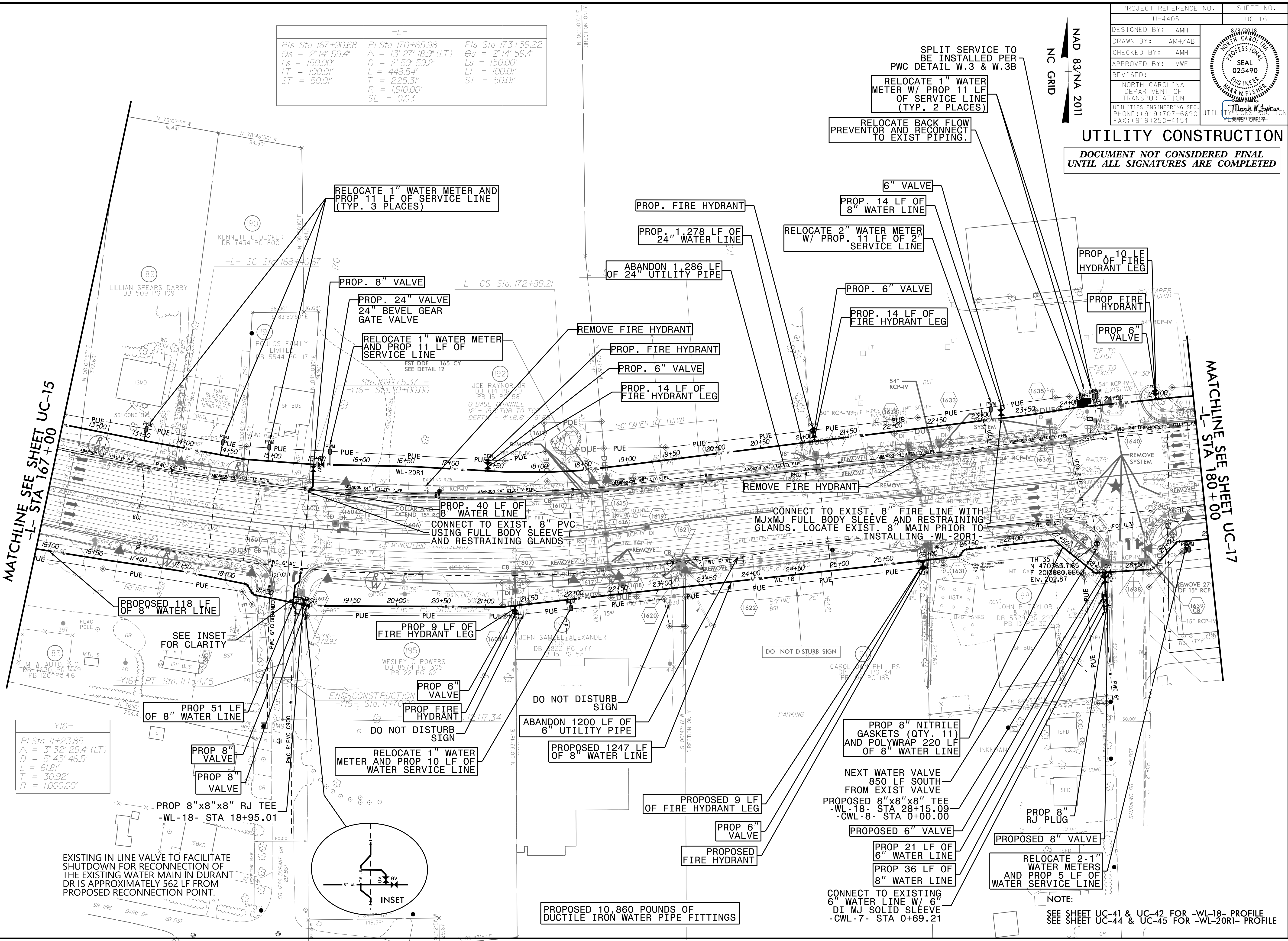
PROJECT REFERENCE NO.	SHEET NO.
U-4405	UC-16
DESIGNED BY: AMH	
DRAWN BY: AMH/AB	
CHECKED BY: AMH	
APPROVED BY: MWF	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SECTION PHONE: (919) 707-6690 FAX: (919) 250-4151	

UTILITY CONSTRUCTION
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NAD 83/NA 2011
NC GRID

-L-

PIs Sta 167+90.68	PI Sta 170+65.98	PIs Sta 173+39.22
$\Delta s = 2' 14" 59.4"$	$\Delta = 13' 27" 18.9" (LT)$	$\Delta s = 2' 14" 59.4"$
$Ls = 150.00'$	$D = 2' 59" 59.2"$	$Ls = 150.00'$
$LT = 100.01'$	$T = 448.54'$	$LT = 100.01'$
$ST = 50.01'$	$R = 1,910.00'$	$ST = 50.01'$
	$SE = 0.03$	

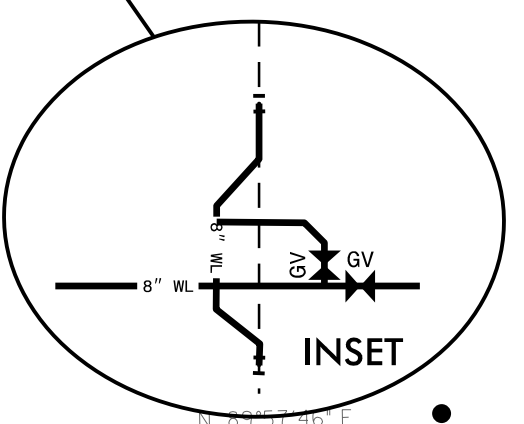


MATCHLINE SEE SHEET UC-15
-L- STA 167+00

MATCHLINE SEE SHEET UC-17
-L- STA 180+00

-Y16-

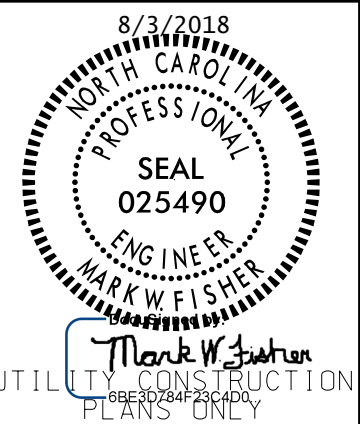
PI Sta 11+23.85
$\Delta = 3' 32" 29.4" (LT)$
$D = 5' 43" 46.5"$
$L = 61.81'$
$T = 30.92'$
$R = 1,000.00'$



EXISTING IN LINE VALVE TO FACILITATE SHUTDOWN FOR RECONNECTION OF THE EXISTING WATER MAIN IN DURANT DR IS APPROXIMATELY 562 LF FROM PROPOSED RECONNECTION POINT.

NOTE:
SEE SHEET UC-41 & UC-42 FOR -WL-18- PROFILE
SEE SHEET UC-44 & UC-45 FOR -WL-20R1- PROFILE

REVISIONS
 UTILITY REV. - JULY 23-2018 - REVISED FONT SIZE FOR PROFILE SHEET REFERENCES
 27-JUL-2018 (5:49 PM) Fayetteville Public Works Commission (2015017700)RA Reeford, Road NCDOT U 4405\CADD\NCDOT PLANS\Utilities\Engineering\UC\Proj\Ud4405_ut_rdlj16.uc16.psh.dgn
 7/14/19



NC GRID
NAD 83/NA 2011

UTILITY CONSTRUCTION

**DOCUMENT NOT CONSIDERED FINAL
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SEE
UTILITY
CONSTRUCTION
NOTES

PROPOSED 10'x10'
RECEIVING PIT WITH
AT APPROX. TOP OF SLOPE

PROP. 24"x24"x6" TEE

PROP. BORE AND JACK OF
139 LF OF 36" ENCASEMENT

PROP. 139 LF OF 36"
STL. ENCASEMENT PIPE

EXIST. IN LINE VALVE TO
FACILITATE SHUTDOWN FOR
RECONNECT OF EXIST. 8"
WATER LINE IS APPROX. 680'
FROM TIE IN LOCATION

TIE TO EXIST. 8" USING
RJ SOLID SLEEVE WITH RESTRAINTS

PROP. 42 LF OF 8" WATER LINE

PROP. 8" VALVE

PROPOSED 20'x40' ENTRY PIT WITH
AT APPROX. TOP OF SLOPE

PROP. FIRE HYDRANT
PROP. 6" VALVE
PROP. 20 LF OF FIRE HYDRANT LEG

CONTRACTOR TO DETERMINE IF METERS ARE
STILL IN PLACE AND ACTIVE AND REMOVE/RELOCATE

PROP. 24" VALVE

BEGIN -WL-20R2- STA 0+00
-WL-20R1- STA 38+81.04
-L- STA 190+86.82 (75.98' LT)

PROP. 30"x24" REDUCER

PROP. 213 LF OF 30" WATER LINE

ABANDON 359 LF OF
12" UTILITY PIPE

PROP. FIRE HYDRANT
14 LF OF FIRE
HYDRANT LEG
PROP. 6" VALVE

PROP 12"
LINE STOP

PROP 250 SF
OF TEMPORARY
SHORING NO.9

PIT SHALL BE ACTIVE
SHORED REMOVE WATER
METERS (TYP. 2)

EXIST. UGE
RELOCATE ENTIRE ASSEMBLY
AS SHOWN ON INSET

PROP 161 LF
OF 24" WATER LINE

PROPOSED 8"
VALVE

PROPOSED 24"x8" RJ REDUCER
-WL-19- STA 1+60.00

PROP 636 SF OF
TEMPORARY SHORING NO.10

ENTRY PIT SHALL BE
ACTIVE SHORED
PROPOSED 20'x40'
ENTRY PIT WITH
1:1 SIDE SLOPE

PROPOSED 160 LF
OF 24" WATER LINE

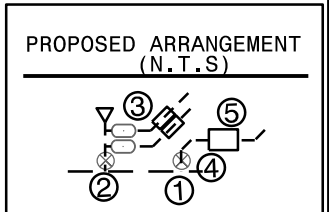
ABANDON 67 LF OF
6" UTILITY PIPE

PROPOSED 24"x24"x8"x8" RJ CROSS
-WL-18A- STA 0+37.21
-WL-19- STA 0+64.09

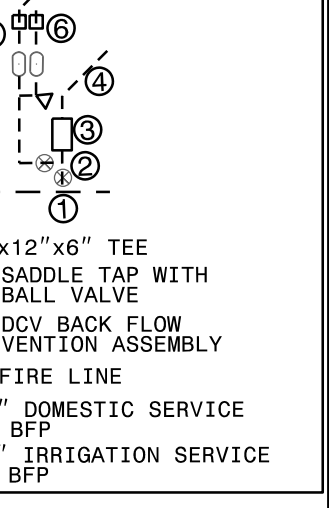
PROPOSED 8 LF
OF FIRE
HYDRANT LEG

PROPOSED FIRE
HYDRANT

PROPOSED 8"
VALVE
PROPOSED 24"
VALVE



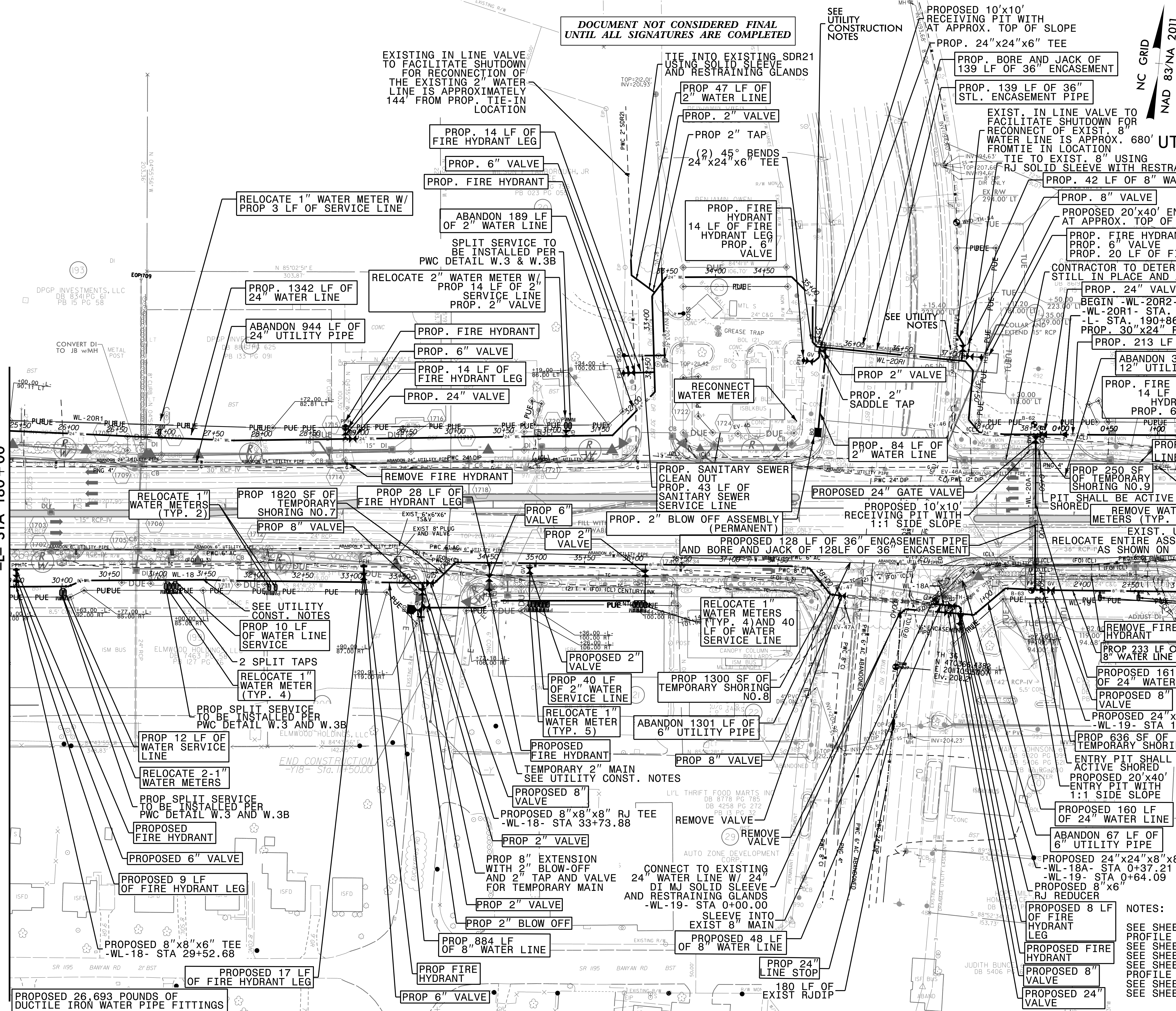
- EXISTING ARRANGEMENT (N.T.S.)
- 1 30"x30"x6" RJ DI TEE
 - 2 2" SADDLE TAP WITH BALL VALVE
 - 3 2-2" DOMESTIC LATERALS AND BFP ASSEMBLY PER PWC DETAIL W.30 CONNECT BACK TO 1.5" SERVICE LATERALS AFTER BFP ENCLASURE
 - 4 6" GATE VALVE AND BOX
 - 5 6" DCV BACKFLOW PREVENTION ASSEMBLY
 - 6 1.5" DOMESTIC SERVICE AND BFP
 - 7 1.5" IRRIGATION SERVICE AND BFP



- RELOCATE WATER METER (TYP. 4) SEE UTILITY CONSTRUCTION NOTES
- 1 12"x12"x6" TEE
 - 2 2" SADDLE TAP WITH BALL VALVE
 - 3 6" DCV BACKFLOW PREVENTION ASSEMBLY
 - 4 6" FIRE LINE
 - 5 1.5" DOMESTIC SERVICE AND BFP
 - 6 1.5" IRRIGATION SERVICE AND BFP

MATCHLINE SEE SHEET UC-18
-L- STA 193+00

NOTES:
SEE SHEET UC-41 AND UC-42 FOR -WL-18- PROFILE
SEE SHEET UC-42 FOR -WL-18A- PROFILE
SEE SHEET UC-43 FOR -WL-19- PROFILE
SEE SHEET UC-44 & UC-45 FOR -WL-20R1- PROFILE
SEE SHEET UC-45 FOR -WL-20R2- PROFILE
SEE SHEET UC-48 FOR -WL-20A- PROFILE



MATCHLINE SEE SHEET UC-16
-L- STA 180+00

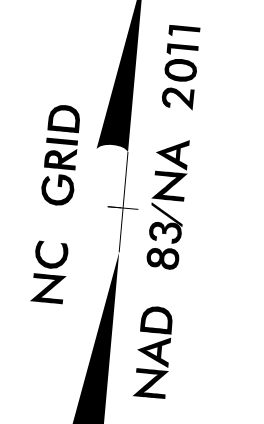
REVISIONS

UTILITY REV. - JULY 23, 2008 - ADDED A SANITARY SEWER SERVICE RECONNECTION ON KARR DR FOR PARCEL 23
- ADDED 6" DCV BACKFLOW PREVENTION ASSEMBLY FOR CONSTRUCTION SEQUENCING
- ADDED A 12" LINE STOP IN FRONT OF THE CIRCLE & FOR CONSTRUCTION SEQUENCING

27-JUL-2018 14:15
L:\Projects\Public\Utilities\Public Works Commission\2015017700RA Reeford Road NCDOT U 4405\CADD\NCDOT PLANS\Utilities\Engineering\UC\Proj\4405.ut_rdlj7.uc17.psh.dgn
A:\work\2018\11\14\99

PROJECT REFERENCE NO.	SHEET NO.
U-4405	UC-18
DESIGNED BY: AMH	8/3/2018
DRAWN BY: AMH/AB	
CHECKED BY: AMH	
APPROVED BY: MWF	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

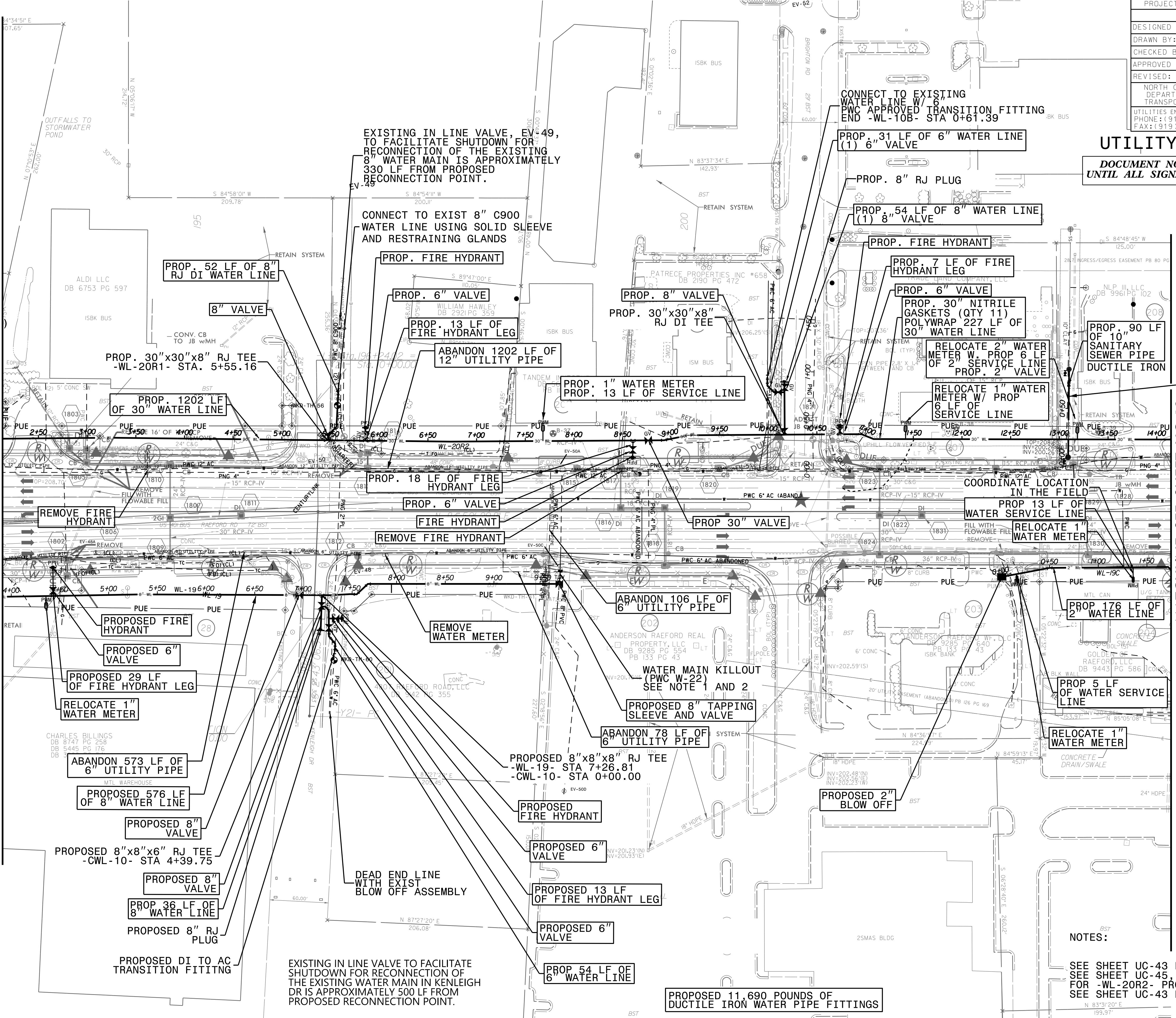
UTILITY CONSTRUCTION
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REMOVE AND REPLACE
 10" VC WITH 10" DI
 FROM SSMH TO SSMH.
 CENTER 20 FT
 JOINT OVER CROSSING
 OF 30" MAIN. JOINT
 SHALL BE EQUIVALENT
 OF WATER MAIN
 STANDARD

MATCHLINE SEE SHEET UC-17
 -L- STA 193+00

MATCHLINE SEE SHEET UC-19
 -L- STA 205+00



NOTES:
 SEE SHEET UC-43 FOR -WL-19- PROFILE
 SEE SHEET UC-45, UC-46, UC-47
 FOR -WL-20R2- PROFILE
 SEE SHEET UC-43 FOR -WL-19B- PROFILE

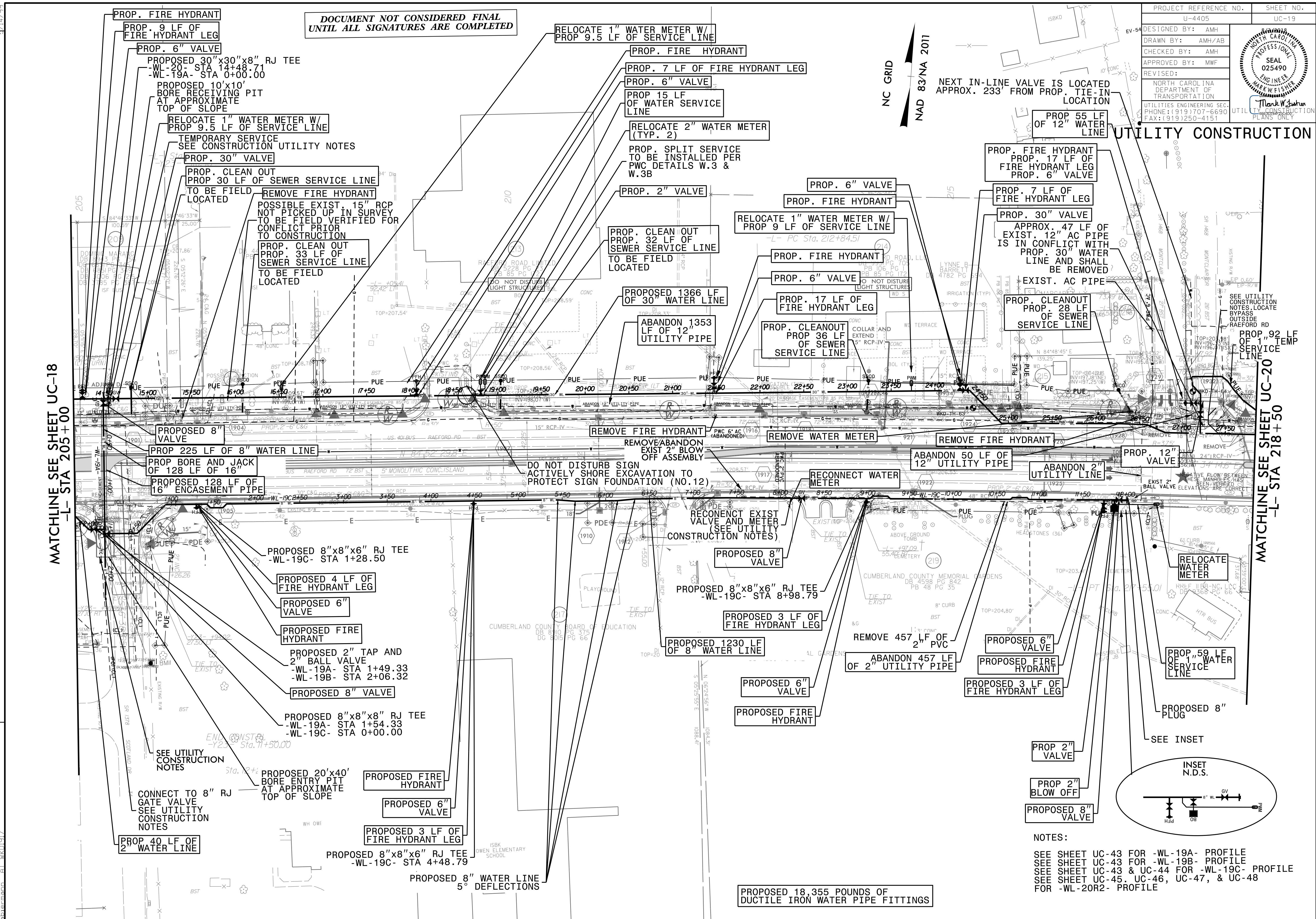
REVISIONS
 27-JUL-2018 1435
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 UTILITY REV. - JULY 23, 2018 - ADDED VALVES EV-48A, EV-50A, EV-50C, EV-50D

PROJECT REFERENCE NO.	SHEET NO.
U-4405	UC-19
DESIGNED BY: AMH	
DRAWN BY: AMH/AB	
CHECKED BY: AMH	
APPROVED BY: MWF	
REVISED:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

UTILITY CONSTRUCTION

NC GRID
NAD 83/NA 2011

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MATCHLINE SEE SHEET UC-18
-L- STA 205+00

MATCHLINE SEE SHEET UC-20
-L- STA 218+50

PROP. FIRE HYDRANT
PROP. 9 LF OF
FIRE HYDRANT LEG
PROP. 6" VALVE

PROPOSED 30"x30"x8" RJ TEE
-WL-20- STA 14+48.71
-WL-19A- STA 0+00.00

PROPOSED 10'x10'
BORE RECEIVING PIT
AT APPROXIMATE
TOP OF SLOPE

RELOCATE 1" WATER METER W/
PROP 9.5 LF OF SERVICE LINE

TEMPORARY SERVICE
SEE CONSTRUCTION UTILITY NOTES

PROP. 30" VALVE

PROP. CLEAN OUT
PROP 30 LF OF SEWER SERVICE LINE
TO BE FIELD
LOCATED

REMOVE FIRE HYDRANT
POSSIBLE EXIST. 15" RCP
NOT PICKED UP IN SURVEY
TO BE FIELD VERIFIED FOR
CONFLICT PRIOR
TO CONSTRUCTION

PROP. CLEAN OUT
PROP. 33 LF OF
SEWER SERVICE LINE
TO BE FIELD
LOCATED

RELOCATE 1" WATER METER W/
PROP 9.5 LF OF SERVICE LINE

PROP. FIRE HYDRANT

PROP. 7 LF OF FIRE HYDRANT LEG

PROP. 6" VALVE

PROP 15 LF
OF WATER SERVICE
LINE

RELOCATE 2" WATER METER
(TYP. 2)

PROP. SPLIT SERVICE
TO BE INSTALLED PER
PWC DETAILS W.3 &
W.3B

PROP. 2" VALVE

PROP. 6" VALVE

PROP. FIRE HYDRANT

RELOCATE 1" WATER METER W/
PROP 9 LF OF SERVICE LINE

PROP. FIRE HYDRANT

PROP. 6" VALVE

PROP. 17 LF OF
FIRE HYDRANT LEG

PROP. CLEANOUT
PROP 36 LF
OF SEWER
SERVICE LINE

PROPOSED 1366 LF
OF 30" WATER LINE

ABANDON 1353
LF OF 12"
UTILITY PIPE

PROP. FIRE HYDRANT
PROP. 17 LF OF
FIRE HYDRANT LEG
PROP. 6" VALVE

PROP. 7 LF OF
FIRE HYDRANT LEG

PROP. 30" VALVE

APPROX. 47 LF OF
EXIST. 12" AC PIPE
IS IN CONFLICT WITH
PROP. 30" WATER
LINE AND SHALL
BE REMOVED

EXIST. AC PIPE

PROP. CLEANOUT
PROP 28 LF
OF SEWER
SERVICE LINE

PROP. 1" 92 LF
OF 12" TEMP
SERVICE
LINE

PROPOSED 8" VALVE

PROP 225 LF OF 8" WATER LINE

PROP BORE AND JACK
OF 128 LF OF 16"
ENCASEMENT PIPE

REMOVE FIRE HYDRANT

REMOVE ABANDON
EXIST 2" BLOW
OFF ASSEMBLY

REMOVE WATER METER

REMOVE FIRE HYDRANT

ABANDON 50 LF OF
12" UTILITY PIPE

ABANDON 2" UTILITY LINE

PROP. 12" VALVE

DO NOT DISTURB SIGN
ACTIVELY SHORE EXCAVATION TO
PROTECT SIGN FOUNDATION (NO.12)

RECONNECT WATER
METER

RECONNECT EXIST
VALVE AND METER
(SEE UTILITY
CONSTRUCTION NOTES)

PROPOSED 8" VALVE

PROPOSED 8"x8"x6" RJ TEE
-WL-19C- STA 8+98.79

PROPOSED 3 LF OF
FIRE HYDRANT LEG

PROPOSED 1230 LF
OF 8" WATER LINE

REMOVE 457 LF OF
2" PVC

ABANDON 457 LF
OF 2" UTILITY PIPE

PROPOSED 6" VALVE

PROPOSED FIRE
HYDRANT

PROPOSED 6" VALVE

PROPOSED 3 LF OF
FIRE HYDRANT LEG

PROP 59 LF
OF 1" WATER
SERVICE
LINE

RELOCATE
WATER
METER

PROPOSED 8"
PLUG

SEE INSET

PROPOSED 8"x8"x6" RJ TEE
-WL-19C- STA 1+28.50

PROPOSED 4 LF OF
FIRE HYDRANT LEG

PROPOSED 6" VALVE

PROPOSED FIRE
HYDRANT

PROPOSED 2" TAP AND
2" BALL VALVE
-WL-19A- STA 1+49.33
-WL-19B- STA 2+06.32

PROPOSED 8" VALVE

PROPOSED 8"x8"x8" RJ TEE
-WL-19A- STA 1+54.33
-WL-19C- STA 0+00.00

PROPOSED FIRE
HYDRANT

PROPOSED 6" VALVE

PROPOSED 3 LF OF
FIRE HYDRANT LEG

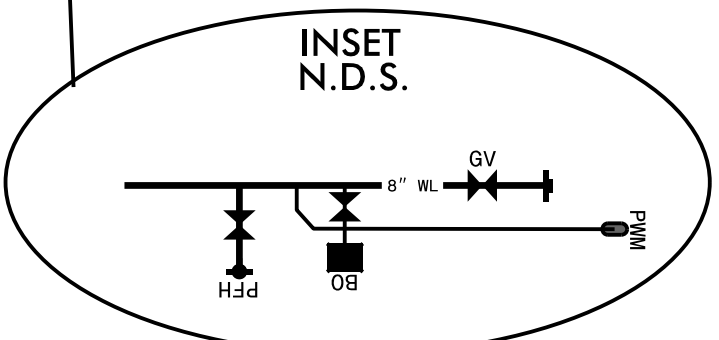
PROPOSED 8"x8"x6" RJ TEE
-WL-19C- STA 4+48.79

PROPOSED 8" WATER LINE
5" DEFLECTIONS

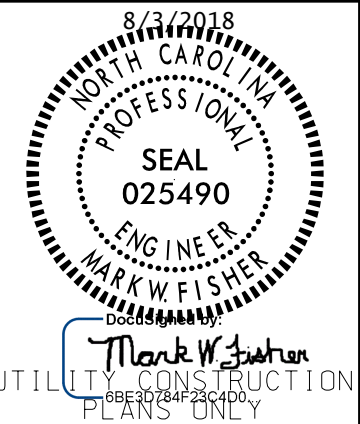
PROPOSED 18,355 POUNDS OF
DUCTILE IRON WATER PIPE FITTINGS

NOTES:

- SEE SHEET UC-43 FOR -WL-19A- PROFILE
- SEE SHEET UC-43 FOR -WL-19B- PROFILE
- SEE SHEET UC-43 & UC-44 FOR -WL-19C- PROFILE
- SEE SHEET UC-45, UC-46, UC-47, & UC-48 FOR -WL-20R2- PROFILE



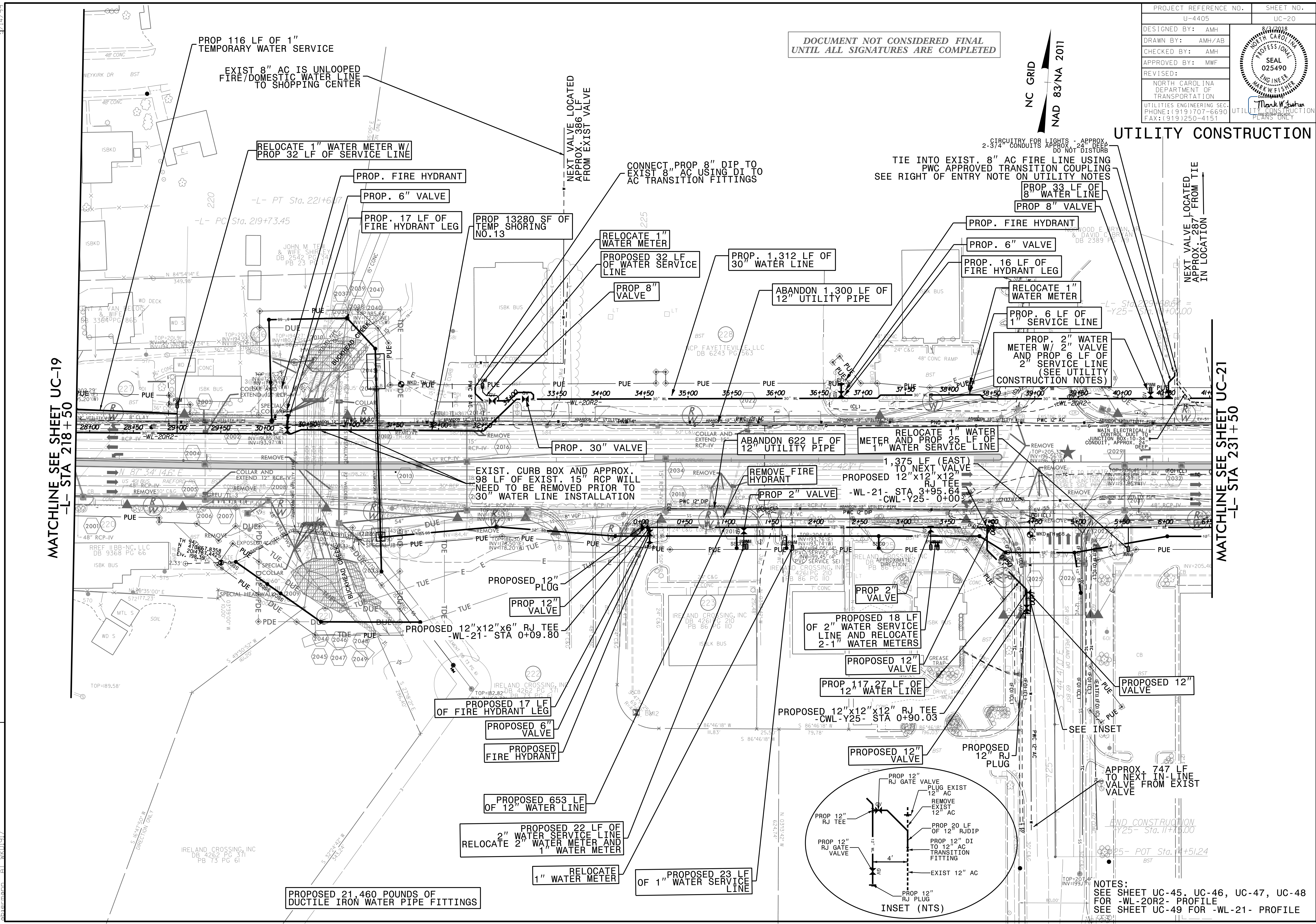
REVISIONS
 02-AUC-2018 13220
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 1/14/2019



DOCUMENT NOT CONSIDERED FINAL
UNTIL ALL SIGNATURES ARE COMPLETED

NC GRID
NAD 83/NA 2011

UTILITY CONSTRUCTION



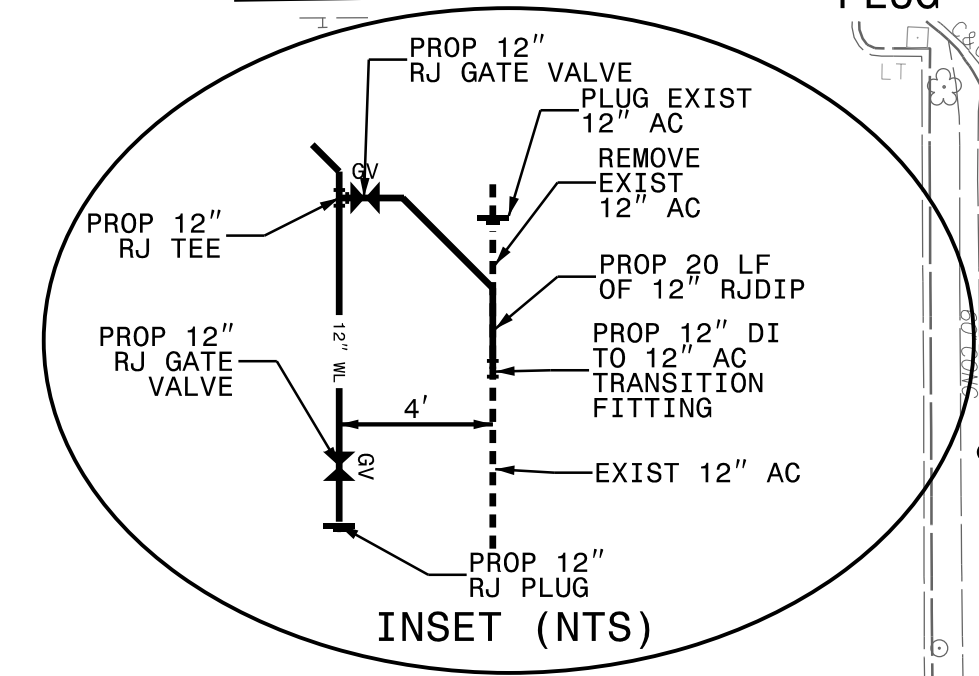
MATCHLINE SEE SHEET UC-19
-L- STA 218+50

MATCHLINE SEE SHEET UC-21
-L- STA 231+50

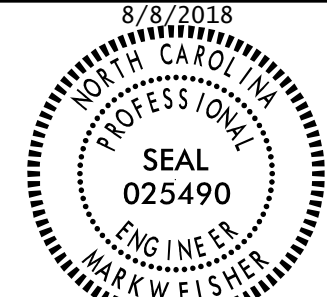

REVISIONS

UTILITY REV. - JULY 23, 2008 - SHIELDED PROP. WATER METER AND WATER SERVICE LINE FOR PARCEL 227
- ADDED VALVE NAME, EX-59 FOR CONSTRUCTION SCHEDULING

02-AUC-2018 1321
L:\Projects\Fayetteville Public Works Commission\2015017700RA - Roeford Road NCDOT U 4405\CADD\NCDOT PLANS\Utilities\Engineering\UC\Proj\U4405.ut_r.dwg 20-uc20.psh.dgn
1/14/2011



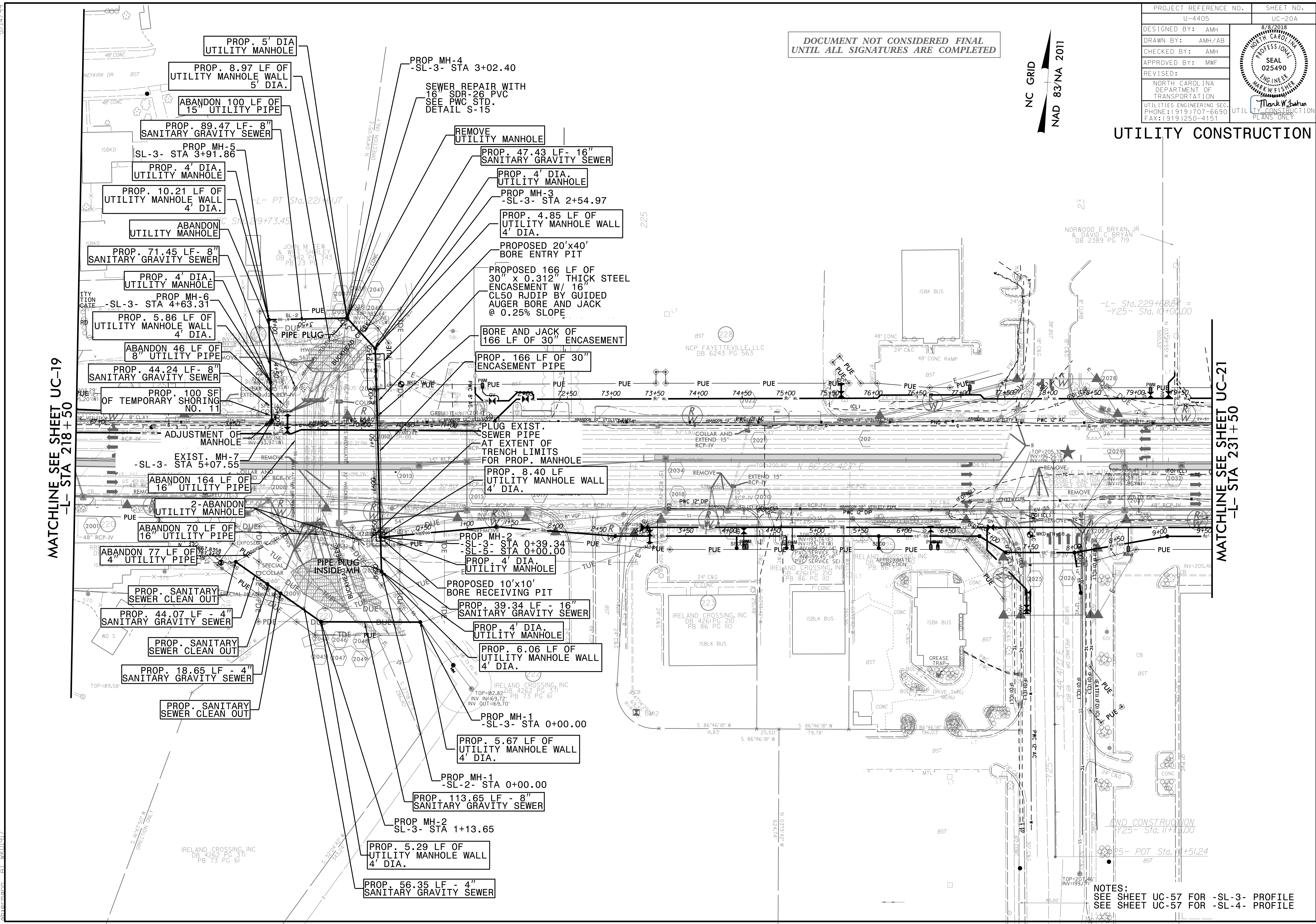
NOTES:
SEE SHEET UC-45, UC-46, UC-47, UC-48
FOR -WL-20R2- PROFILE
SEE SHEET UC-49 FOR -WL-21- PROFILE

PROJECT REFERENCE NO.	U-4405	SHEET NO.	UC-20A
DESIGNED BY:	AMH	DATE	8/8/2018
DRAWN BY:	AMH/AB		
CHECKED BY:	AMH		
APPROVED BY:	MWF		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION			
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151			

DOCUMENT NOT CONSIDERED FINAL
UNTIL ALL SIGNATURES ARE COMPLETED

NC GRID
NAD 83/NA 2011

UTILITY CONSTRUCTION



MATCHLINE SEE SHEET UC-19
-L- STA 218+50

MATCHLINE SEE SHEET UC-21
-L- STA 231+50

REVISIONS

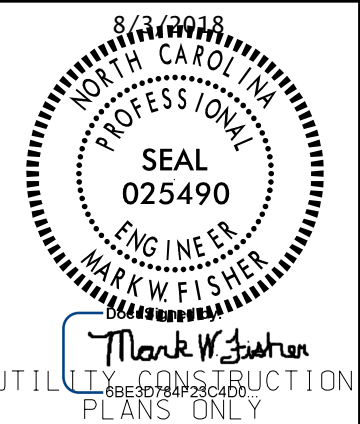
UTILITY REV. - JULY 23, 2018 - ADDED A TEMPORARY SHORING NOT TO CALLOUT STATING 00 SF OF TEMPORARY SHORING

08-AUC-2018 1143
L:\Projects\U-4405\Projects\U-4405\Public Works Commission\2015\017700RA - Roeford Road NCDOT U-4405\CADD\NCDOT PLANS\Utilities\Engineering\UC\Proj\U4405_ut_rdy20_uc20a_psh.dgn
5/14/19

NOTES:
SEE SHEET UC-57 FOR -SL-3- PROFILE
SEE SHEET UC-57 FOR -SL-4- PROFILE

DOCUMENT NOT CONSIDERED FINAL
UNTIL ALL SIGNATURES ARE COMPLETED

PROJECT REFERENCE NO.	UC-21
DESIGNED BY:	AMH
DRAWN BY:	AMH/AB
CHECKED BY:	AMH
APPROVED BY:	MWF
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

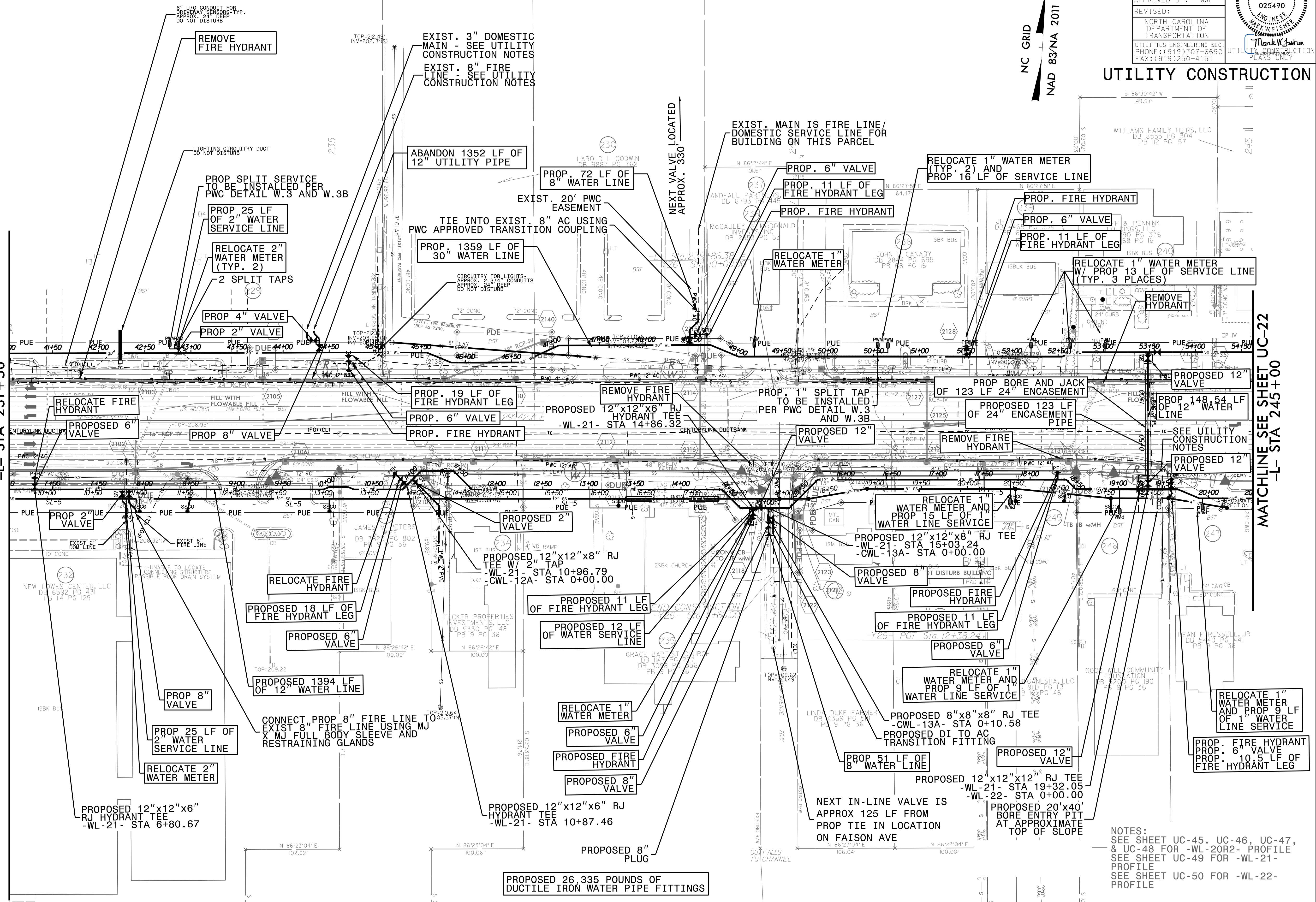


NC GRID
NAD 83/NA 2011

UTILITY CONSTRUCTION

MATCHLINE SEE SHEET UC-20
-L- STA 231+50

MATCHLINE SEE SHEET UC-22
-L- STA 245+00



NOTES:
SEE SHEET UC-45, UC-46, UC-47,
& UC-48 FOR -WL-20R2- PROFILE
SEE SHEET UC-49 FOR -WL-21-
PROFILE
SEE SHEET UC-50 FOR -WL-22-
PROFILE

REVISIONS

UTILITY REVISIONS - JULY 23, 2008 - REVISED CALLOUTS TO SEE UTILITY CONSTRUCTION NOTES
- SEE SHEET UC-20 FOR -WL-21- PROFILE
- SEE SHEET UC-20 FOR -WL-21- PROFILE
- SEE SHEET UC-20 FOR -WL-21- PROFILE

27-JUL-2008 14:06:01 U:\4405\CADD\NCDDT_PLANS\Utilities\Engineering\UC-Proj\4405.ut_r.dwg(2)uc21_psh.dgn
08/14/09



**DOCUMENT NOT CONSIDERED FINAL
UNTIL ALL SIGNATURES ARE COMPLETED**

NC GRID
NAD 83/NA 2011

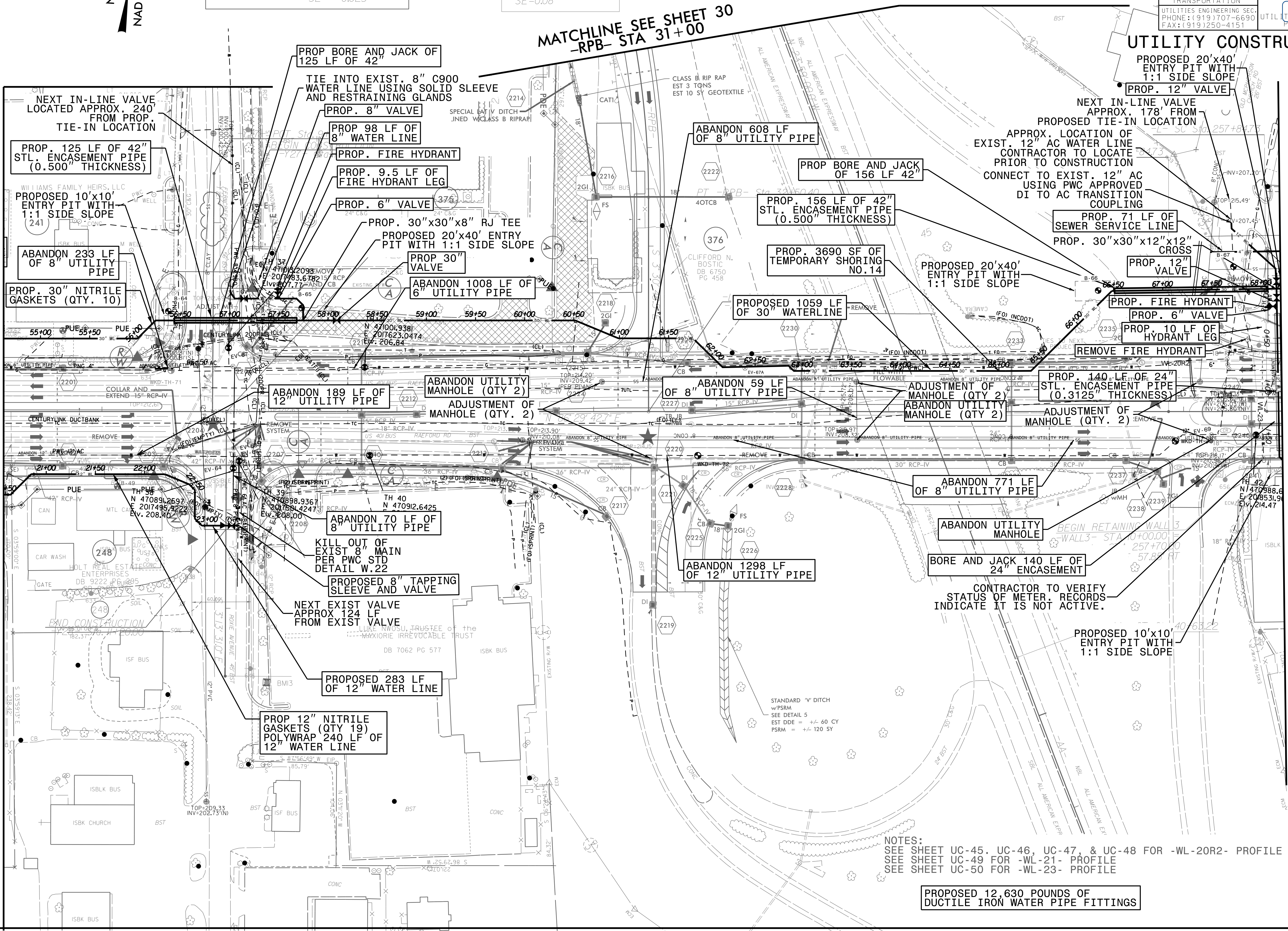
-L-
 Pts Sta 257+51.40 PI Sta 258+20.74
 $\theta_s = 0^\circ 31' 15.1''$ $\Delta = 0^\circ 45' 00.9''$ (LT)
 $L_s = 100.00'$ $D = 1^\circ 02' 30.3''$
 $LT = 66.67'$ $L = 72.02'$
 $ST = 33.33'$ $T = 36.0'$
 $R = 5,500.00'$
 $SE = 0.025$

-RPB-
 PI Sta 31+40.19
 $\Delta = 14^\circ 06' 13.2''$ (RT)
 $D = 6^\circ 21' 58.3''$
 $L = 221.54'$
 $T = 111.33'$
 $R = 900.00'$
 $SE = 0.08$

MATCHLINE SEE SHEET 30
-RPB- STA 31+00

MATCHLINE SEE SHEET UC-21
-L- STA 245+00

MATCHLINE SEE SHEET UC-23
-L- STA 258+00



NOTES:
 SEE SHEET UC-45, UC-46, UC-47, & UC-48 FOR -WL-20R2- PROFILE
 SEE SHEET UC-49 FOR -WL-21- PROFILE
 SEE SHEET UC-50 FOR -WL-23- PROFILE

REVISIONS
 UTILITY REV. - JULY 23, 2018 - ADDER ABANDON UTILITY PIPE, CHANGES TO EXISTING SANITARY SEWER LOCATIONS
 27-JUL-2018 14:17
 L:\Projects\Fayetteville Public Works Commission\2015017700RA ReefFord Road NCDOT U 4405\CADD\NCDOT PLANS\Utilities\Engineering\UC\Proj\Ud4405_ut.rd\22_uc22_uc22.psh.dgn
 1/14/2019

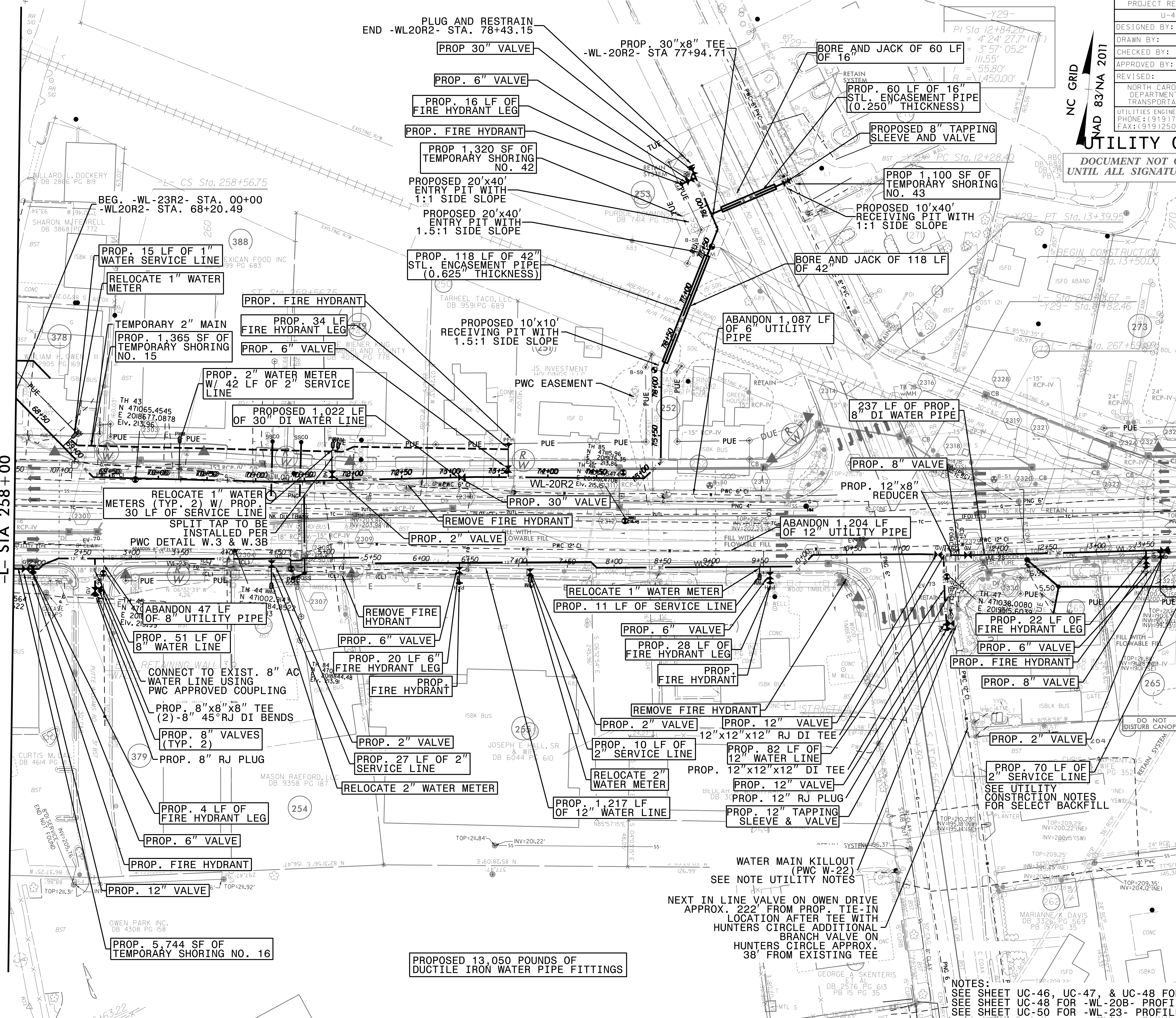
PROJECT REFERENCE NO.	SHEET NO.
U-4405	UC-23
DESIGNED BY: AMH	8/8/2018
DRAWN BY: AMH/AB	
CHECKED BY: AMH	
APPROVED BY: MWF	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

NC GRID
 ROAD 83 NA 2017

UTILITY CONSTRUCTION
 DOCUMENT NOT CONSIDERED FINAL
 UNTIL ALL SIGNATURES ARE COMPLETED

MATCHLINE SEE SHEET UC-22
 -L- STA 258+00

MATCHLINE SEE SHEET UC-24
 -L- STA 270+00



REVISIONS
 UTILITY REV. - JULY 23, 2008 - SHEET 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

WATER MAIN KILLOUT
 (PWC W-22)
 SEE NOTE UTILITY NOTES
 NEXT IN LINE VALVE ON OWEN DRIVE
 APPROX. 222' FROM PROP. TIE-IN
 LOCATION AFTER TEE WITH
 HUNTERS CIRCLE ADDITIONAL
 BRANCH VALVE ON
 HUNTERS CIRCLE APPROX.
 38' FROM EXISTING TEE

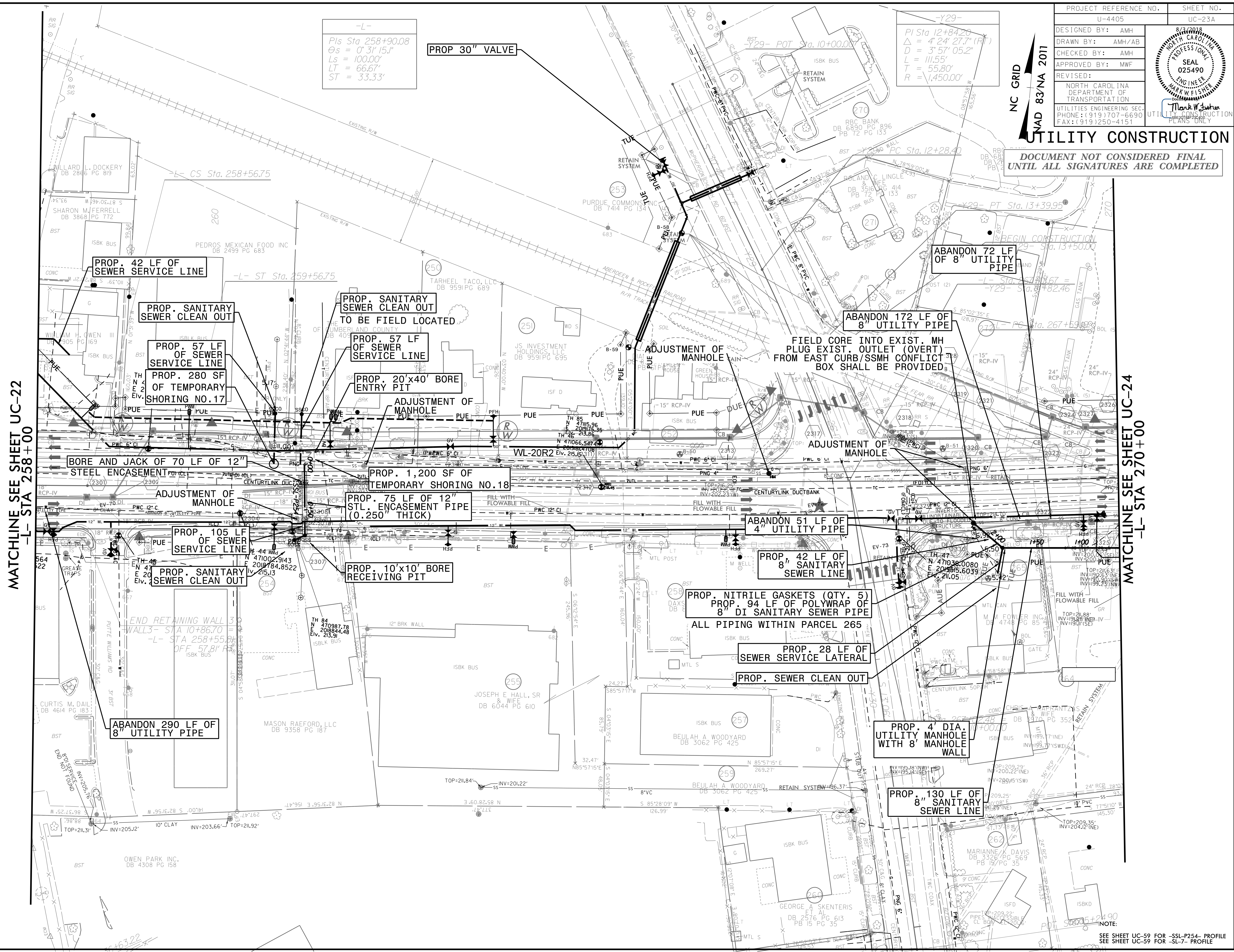
NOTES:
 SEE SHEET UC-46, UC-47, & UC-48 FOR -WL-20R2- PROFILE
 SEE SHEET UC-48 FOR -WL-20B- PROFILE
 SEE SHEET UC-50 FOR -WL-23- PROFILE

NC GRID
ROAD 83/NA 2017

UTILITY CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL
UNTIL ALL SIGNATURES ARE COMPLETED

-L-
Pis Sta 258+90.08
Cs = 0' 31' 15.1"
Ls = 100.00'
LT = 66.67'
ST = 33.33'

-Y29-
PI Sta 12+84.20
Δ = 4' 24' 27.7" (R)
D = 3' 57' 05.2"
L = 111.55'
T = 55.80'
R = 1,450.00'



MATCHLINE SEE SHEET UC-22
-L- STA 258+00

MATCHLINE SEE SHEET UC-24
-L- STA 270+00

REVISIONS

UTILITY REV. - JULY 23, 2018 - ADDED NOTE TO ABANDON 290 LF OF 8" UTILITY PIPE

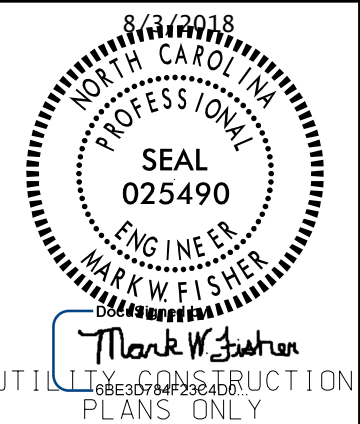
27-JUL-2018 14:17
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A:\WKD\917

NOTE:
SEE SHEET UC-59 FOR -SSL-P254- PROFILE
SEE SHEET UC-59 FOR -SL-7- PROFILE

DOCUMENT NOT CONSIDERED FINAL
UNTIL ALL SIGNATURES ARE COMPLETED

NC GRID
NAD 83/NA 2011

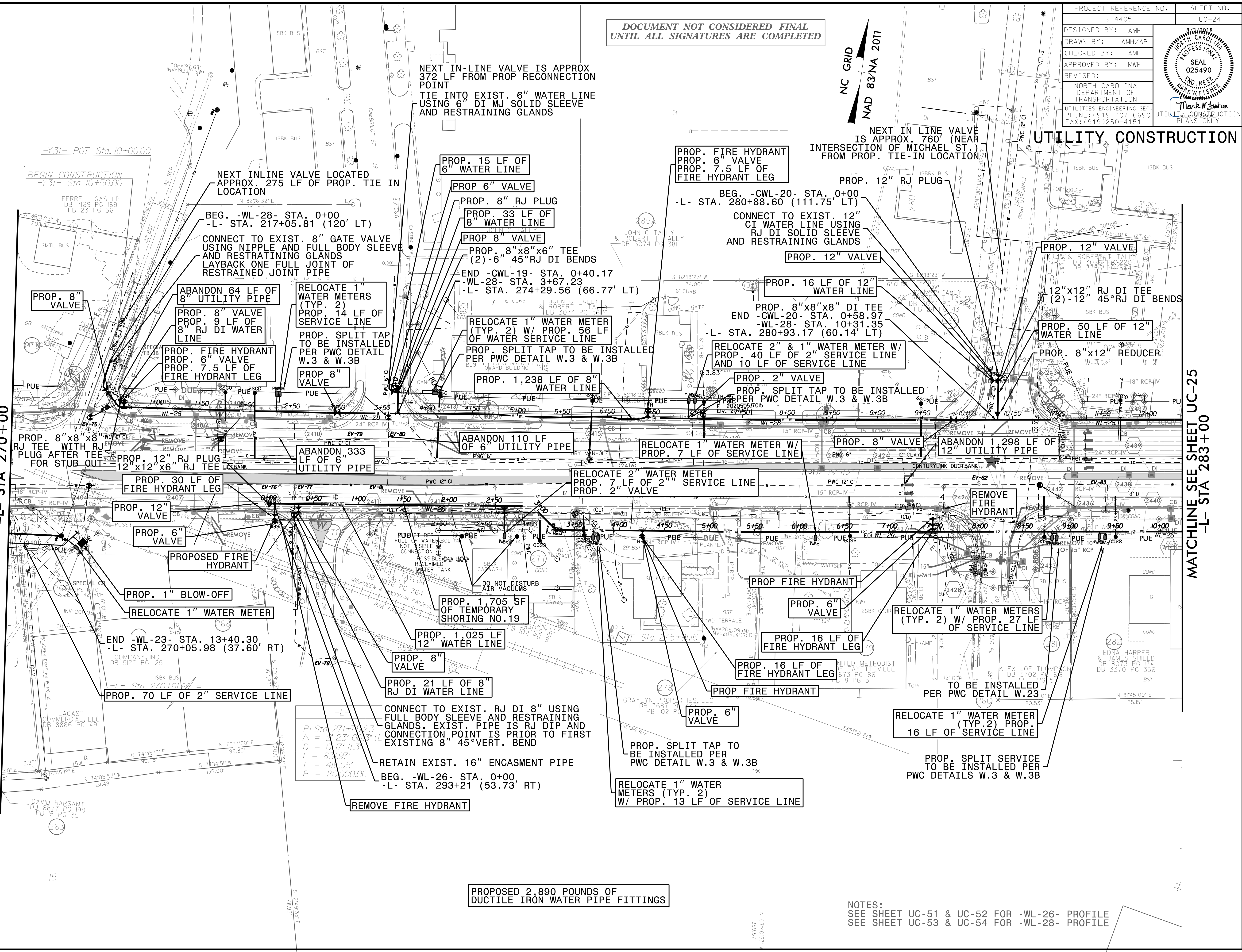
PROJECT REFERENCE NO.	UC-24
DESIGNED BY:	AMH
DRAWN BY:	AMH/AB
CHECKED BY:	AMH
APPROVED BY:	MWF
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	



UTILITY CONSTRUCTION

MATCHLINE SEE SHEET UC-23
-L- STA 270+00

MATCHLINE SEE SHEET UC-25
-L- STA 283+00



PROPOSED 2,890 POUNDS OF
DUCTILE IRON WATER PIPE FITTINGS

NOTES:
SEE SHEET UC-51 & UC-52 FOR -WL-26- PROFILE
SEE SHEET UC-53 & UC-54 FOR -WL-28- PROFILE

REVISIONS

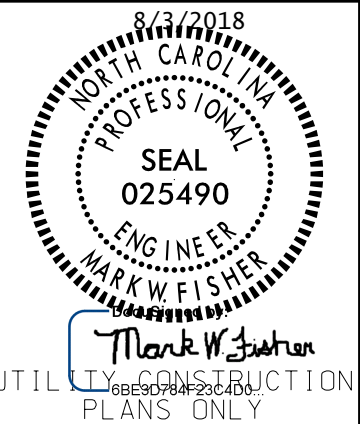
UTILITY REV. - JULY 23, 2008 - ADJUST METERS TO REFLECTING EXISTING METERS AND REMOVE UNNECESSARY METERS. ADD LABELS TO EXISTING VALVES FOR IDENTIFICATION.

27-JUL-2018 (4:18) Fayetteville Public Works Commission\2015\017700RA - Reeford Road NCDOT U 4405\CADD\NCDOT PLANS\Utilities\Engineering\UC\Proj\4405_ut_rdy\24_uc24_uc24.psh.vgdgn

5/14/2019

DOCUMENT NOT CONSIDERED FINAL
UNTIL ALL SIGNATURES ARE COMPLETED

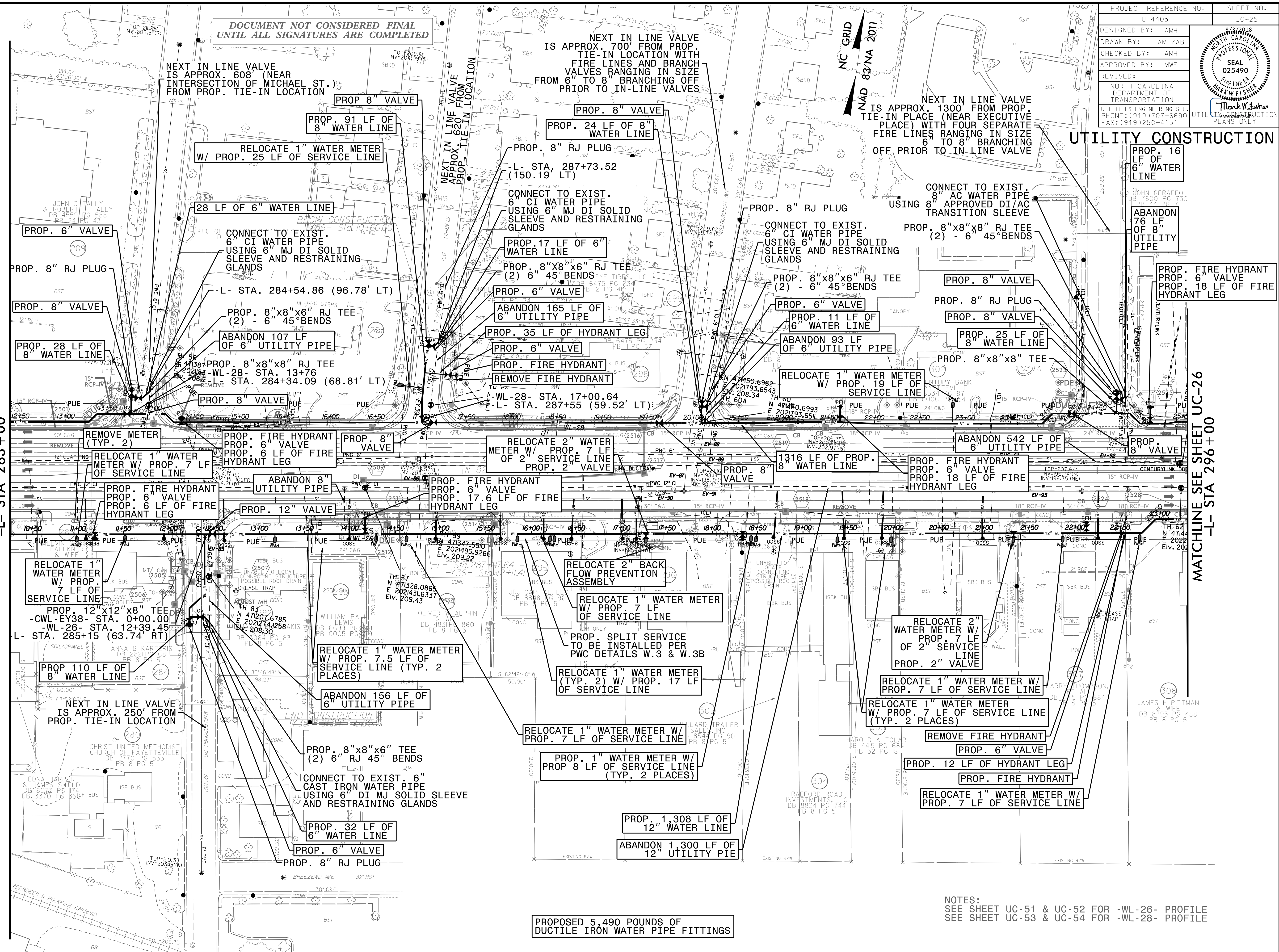
PROJECT REFERENCE NO.	UC-25
DESIGNED BY:	AMH
DRAWN BY:	AMH/AB
CHECKED BY:	AMH
APPROVED BY:	MWF
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	



UTILITY CONSTRUCTION

MATCHLINE SEE SHEET UC-24
-L- STA 283+00

MATCHLINE SEE SHEET UC-26
-L- STA 296+00




NOTES:
SEE SHEET UC-51 & UC-52 FOR -WL-26- PROFILE
SEE SHEET UC-53 & UC-54 FOR -WL-28- PROFILE

REVISIONS

UTILITY REV. - JULY 23, 2008 - SHEETED INTO VALVES ON NEW LOCATIONS ARE AT -WL-28- STA 19+62.50 AND -WL-28- STA 24+22.49

27-JUL-2018 14:18
L:\Projects\Fayetteville Public Works Commission\2015\01700PRA Reeford Road NCDOT U 4405\CADD\NCDOT PLANS\Utilities\Engineering\UC\Proj\U4405_uc25_uc25_psh.vgdgn

PROJECT REFERENCE NO.	U-4405
SHEET NO.	UC-26
DESIGNED BY:	AMH
DRAWN BY:	AMH/AB
CHECKED BY:	AMH
APPROVED BY:	MWF
REVISED:	
	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

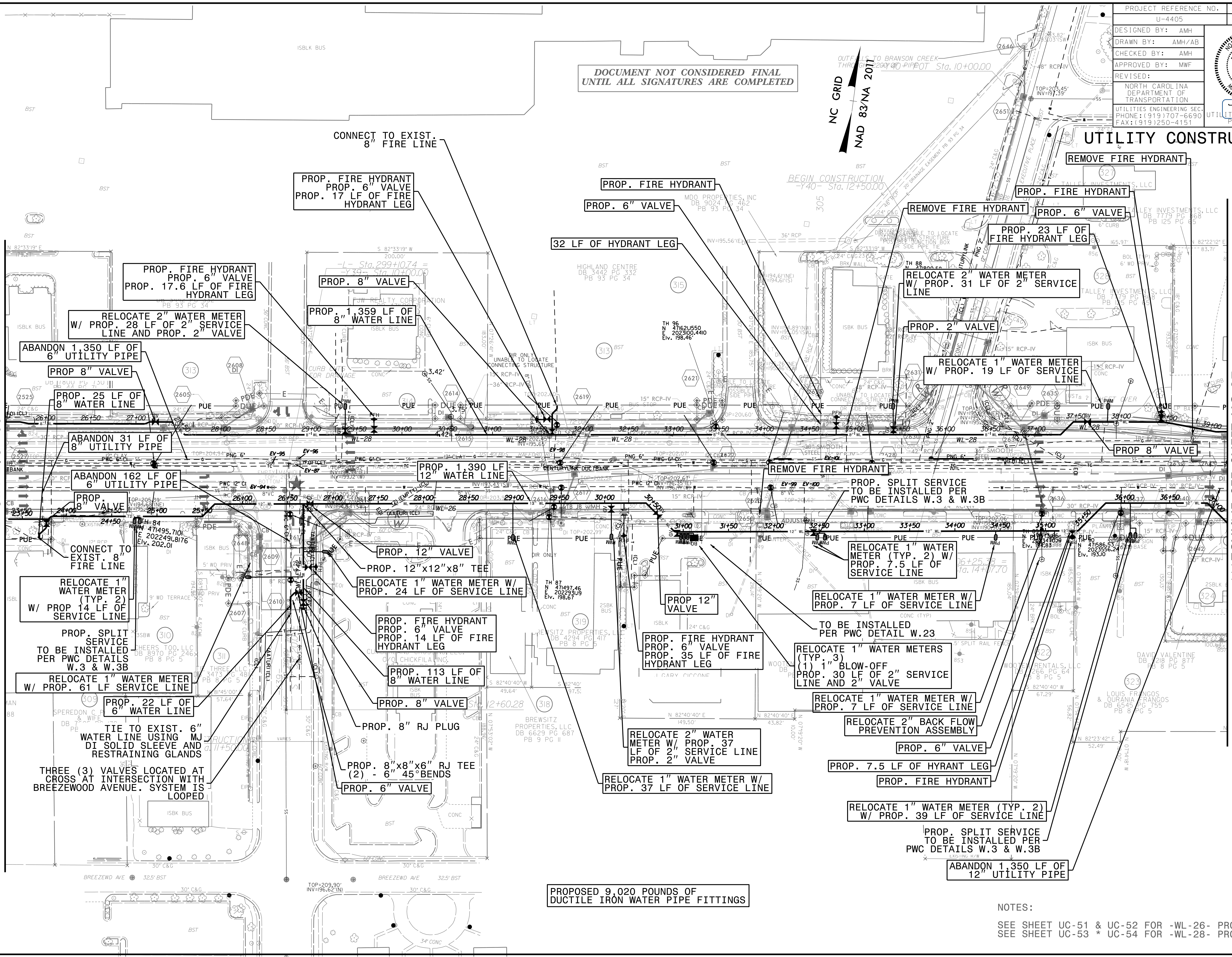
DOCUMENT NOT CONSIDERED FINAL
UNTIL ALL SIGNATURES ARE COMPLETED

NC GRID
NAD 83/NA 2011

UTILITY CONSTRUCTION

MATCHLINE SEE SHEET UC-25
-L- STA 296+00

MATCHLINE SEE SHEET UC-27
-L- STA 309+50



PROPOSED 9,020 POUNDS OF
DUCTILE IRON WATER PIPE FITTINGS

NOTES:
SEE SHEET UC-51 & UC-52 FOR -WL-26- PROFILE
SEE SHEET UC-53 * UC-54 FOR -WL-28- PROFILE

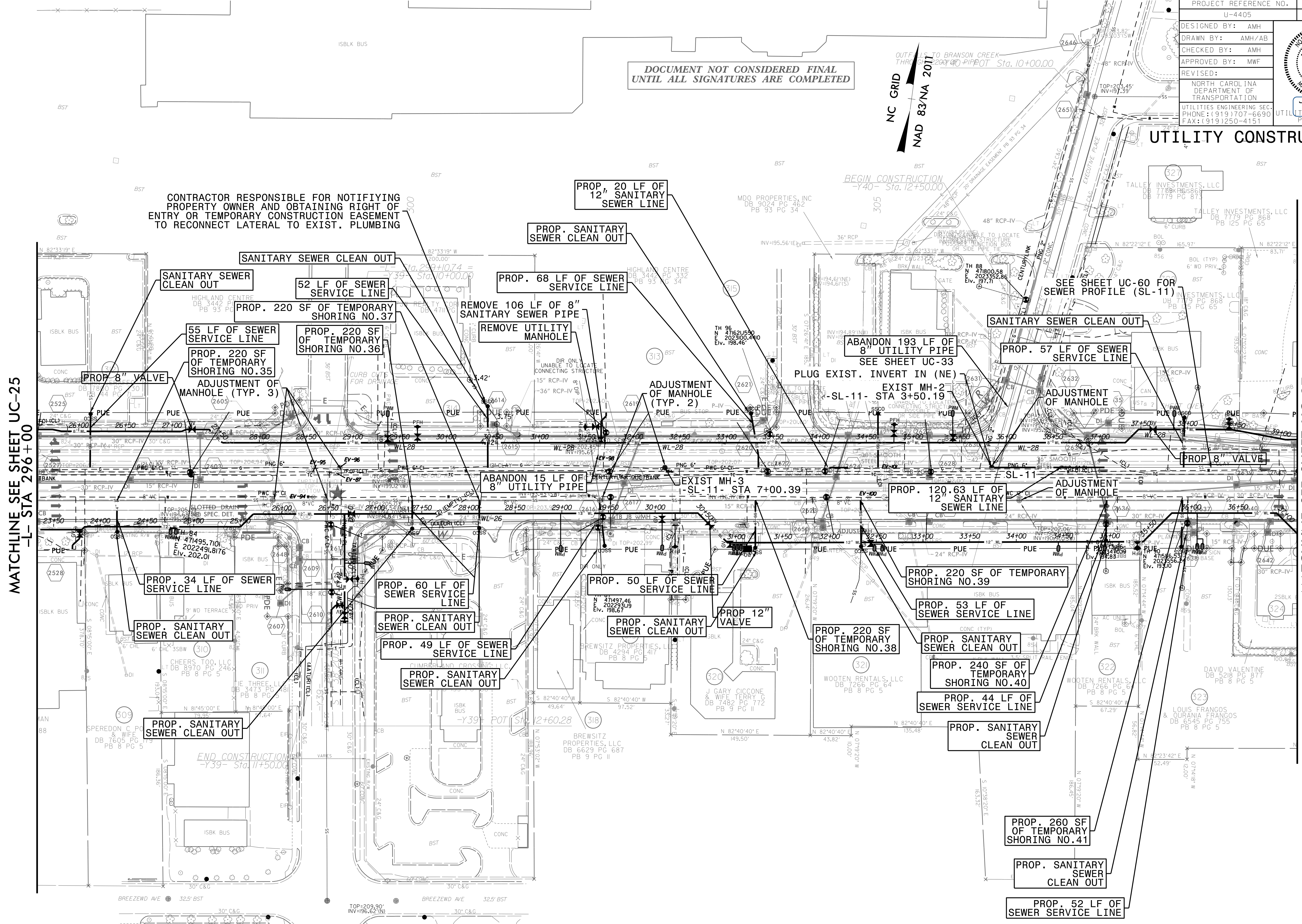
REVISIONS
 27-JUL-2018 (438)
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 UTILITY REV. - JULY 23, 2018 - ADDED AN 8" VALVE AT -WL-28- STA 297+50.85

PROJECT REFERENCE NO.	UC-26A
DESIGNED BY:	AMH
DRAWN BY:	AMH/AB
CHECKED BY:	AMH
APPROVED BY:	MWF
REVISID:	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

DOCUMENT NOT CONSIDERED FINAL
UNTIL ALL SIGNATURES ARE COMPLETED

NC GRID
NAD 83/NA 2011

UTILITY CONSTRUCTION



MATCHLINE SEE SHEET UC-25
-L- STA 296+00

MATCHLINE SEE SHEET UC-27
-L- STA 309+50

NOTES:
SEE SHEET UC-60 FOR -SL-11- PROFILE

27-Jul-2018 14:19
 L:\Projects\Public Works Commission\2015\01700RA -Rooford Road NCDOT U 4405\CADD\NCDDT PLANS\Utilities\Engineering\UC\Proj\4405_ut_rdy\26_uc26A_psh.dgn
 5/14/2018

DOCUMENT NOT CONSIDERED FINAL
UNTIL ALL SIGNATURES ARE COMPLETED

PROJECT REFERENCE NO.	SHEET NO.
U-4405	UC-27
DESIGNED BY: AMH	
DRAWN BY: AMH/AB	
CHECKED BY: AMH	
APPROVED BY: MWF	
REVISED:	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	UTILITY CONSTRUCTION PLANS ONLY

NC GRID
NAD 83/NA 2011

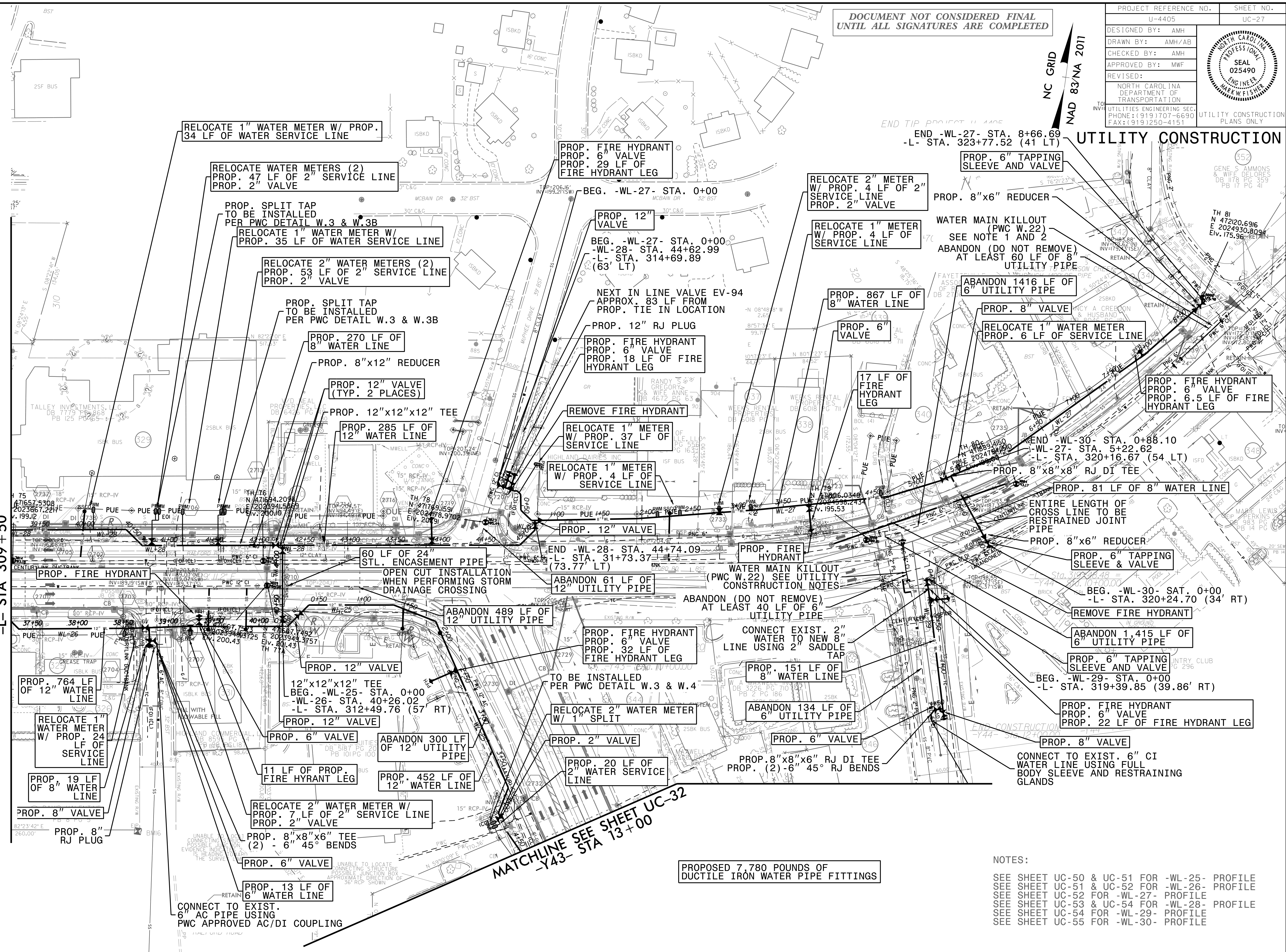
MATCHLINE SEE SHEET UC-26
-L- STA 309 + 50

MATCHLINE SEE SHEET UC-32
-Y43- STA 13 + 00

PROPOSED 7,780 POUNDS OF
DUCTILE IRON WATER PIPE FITTINGS


NOTES:

- SEE SHEET UC-50 & UC-51 FOR -WL-25- PROFILE
- SEE SHEET UC-51 & UC-52 FOR -WL-26- PROFILE
- SEE SHEET UC-52 FOR -WL-27- PROFILE
- SEE SHEET UC-53 & UC-54 FOR -WL-28- PROFILE
- SEE SHEET UC-54 FOR -WL-29- PROFILE
- SEE SHEET UC-55 FOR -WL-30- PROFILE



3-MAY-2018 14:50
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 5/14/19

DOCUMENT NOT CONSIDERED FINAL
UNTIL ALL SIGNATURES ARE COMPLETED

PROJECT REFERENCE NO.		SHEET NO.	
U-4405		UC-27A	
DESIGNED BY:	AMH		UTILITY CONSTRUCTION PLANS ONLY
DRAWN BY:	AMH/AB		
CHECKED BY:	AMH		
APPROVED BY:	MWF		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

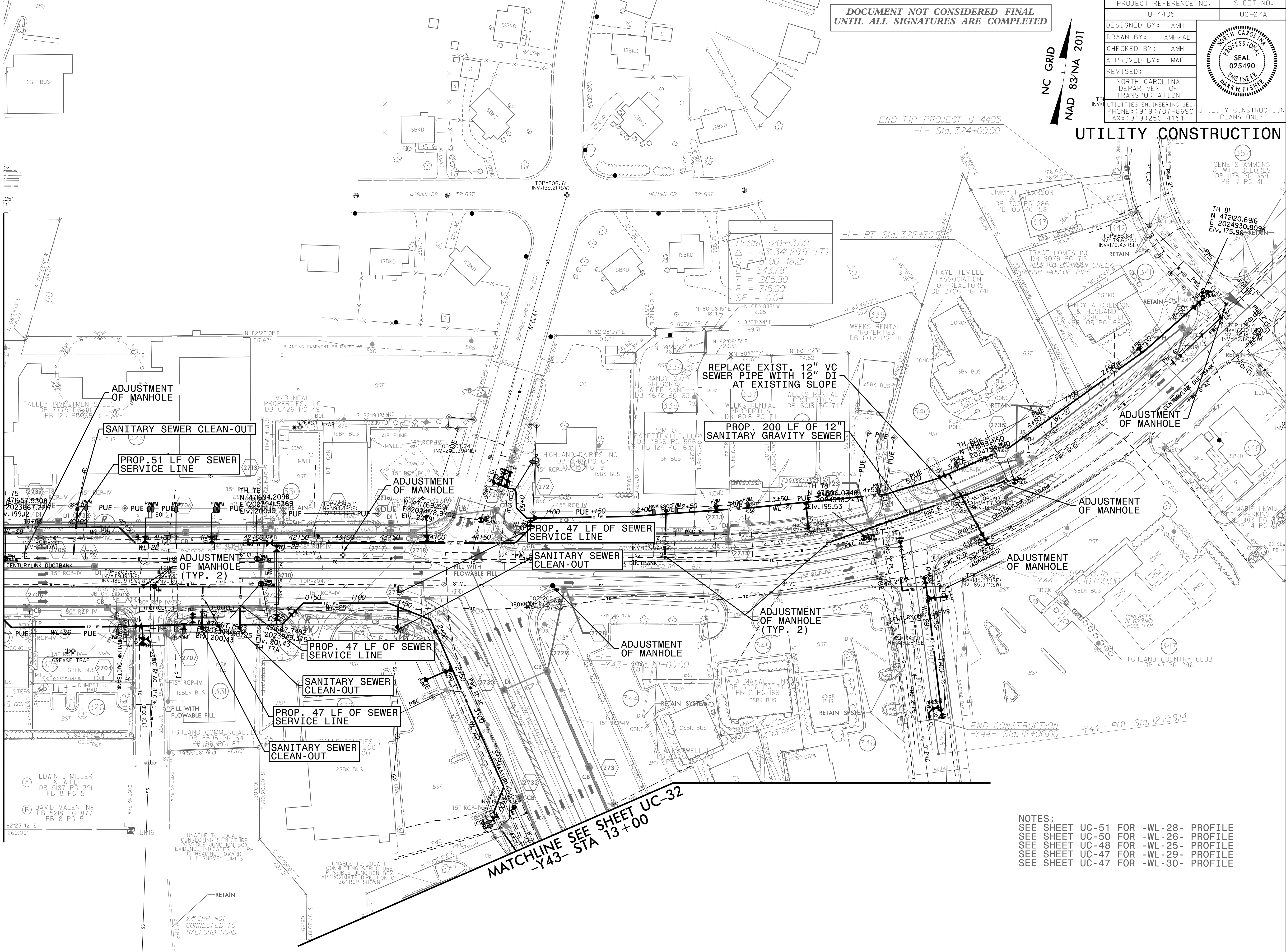
NC GRID
NAD 83/NA 2011

UTILITY CONSTRUCTION

5/14/09
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chuman@atkins.com

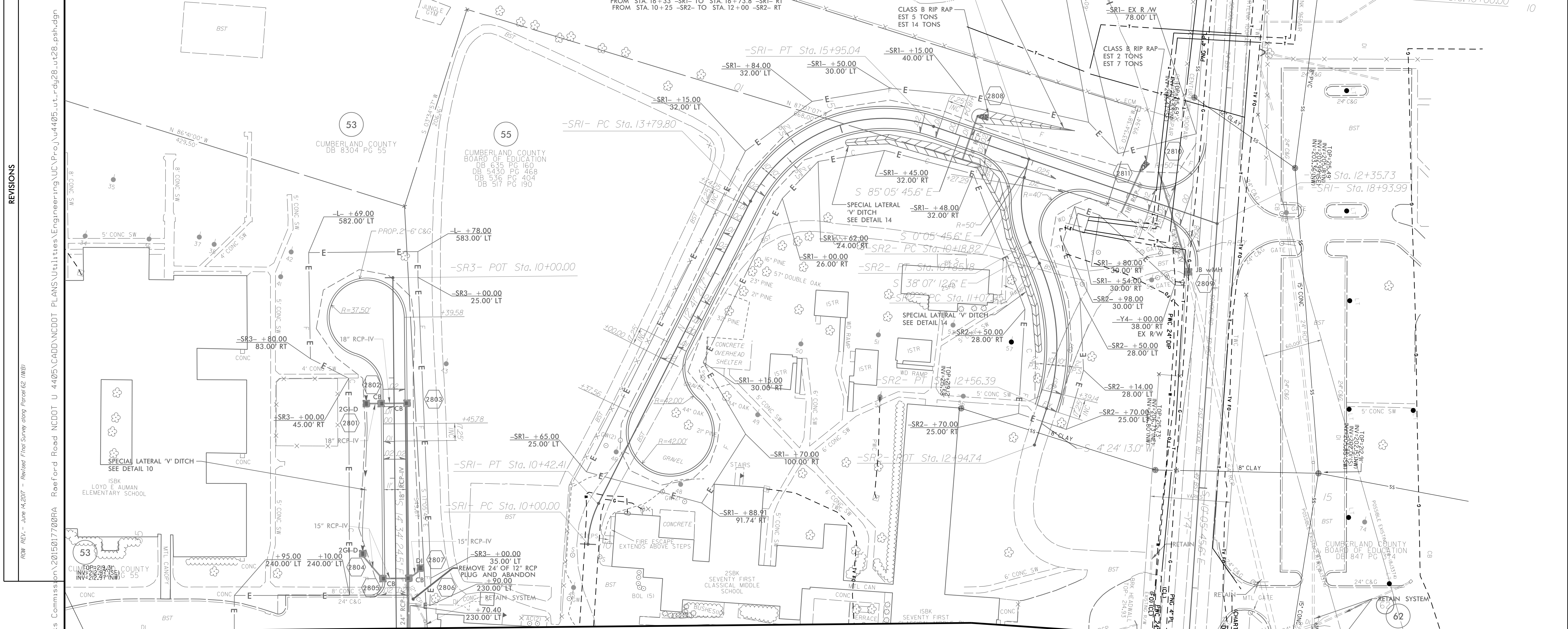
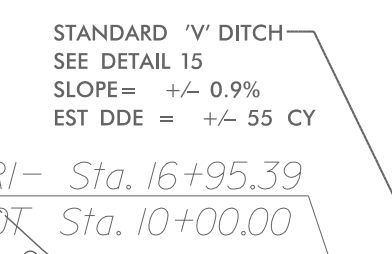
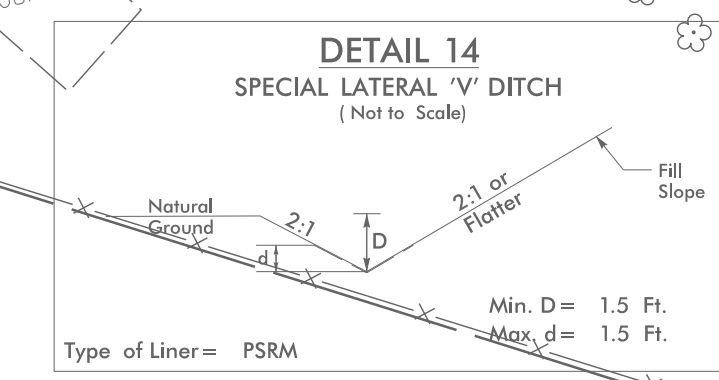
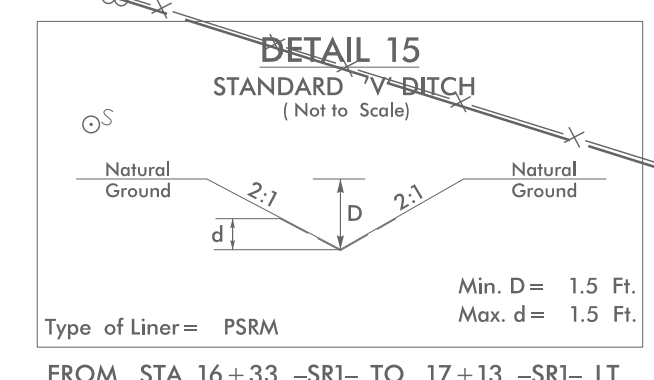
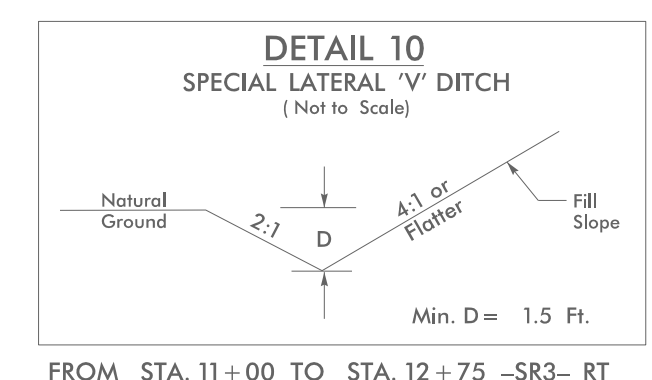
MATCHLINE SEE SHEET UC-26
-L- STA 309 + 50

MATCHLINE SEE SHEET UC-32
-Y43- STA 13 + 00



NOTES:
 SEE SHEET UC-51 FOR -WL-28- PROFILE
 SEE SHEET UC-50 FOR -WL-26- PROFILE
 SEE SHEET UC-48 FOR -WL-25- PROFILE
 SEE SHEET UC-47 FOR -WL-29- PROFILE
 SEE SHEET UC-47 FOR -WL-30- PROFILE

-SR1-		-SR2-	
PI Sta 10+21.53	PI Sta 15+10.69	PI Sta 10+53.27	PI Sta 11+85.78
$\Delta = 24'17"48.3"$ (RT)	$\Delta = 82'12"52.6"$ (RT)	$\Delta = 38'01"27.0"$ (LT)	$\Delta = 42'31"25.6"$ (RT)
D = 57'17"44.8"	D = 38'11"49.9"	D = 57'17"44.8"	D = 28'38"52.4"
L = 42.41'	L = 215.24'	L = 66.36'	L = 148.44'
T = 21.53'	T = 130.89'	T = 34.46'	T = 77.82'
R = 100.00'	R = 150.00'	R = 100.00'	R = 200.00'



MATCHLINE SEE SHEET 6
-SR3- STA 13+50

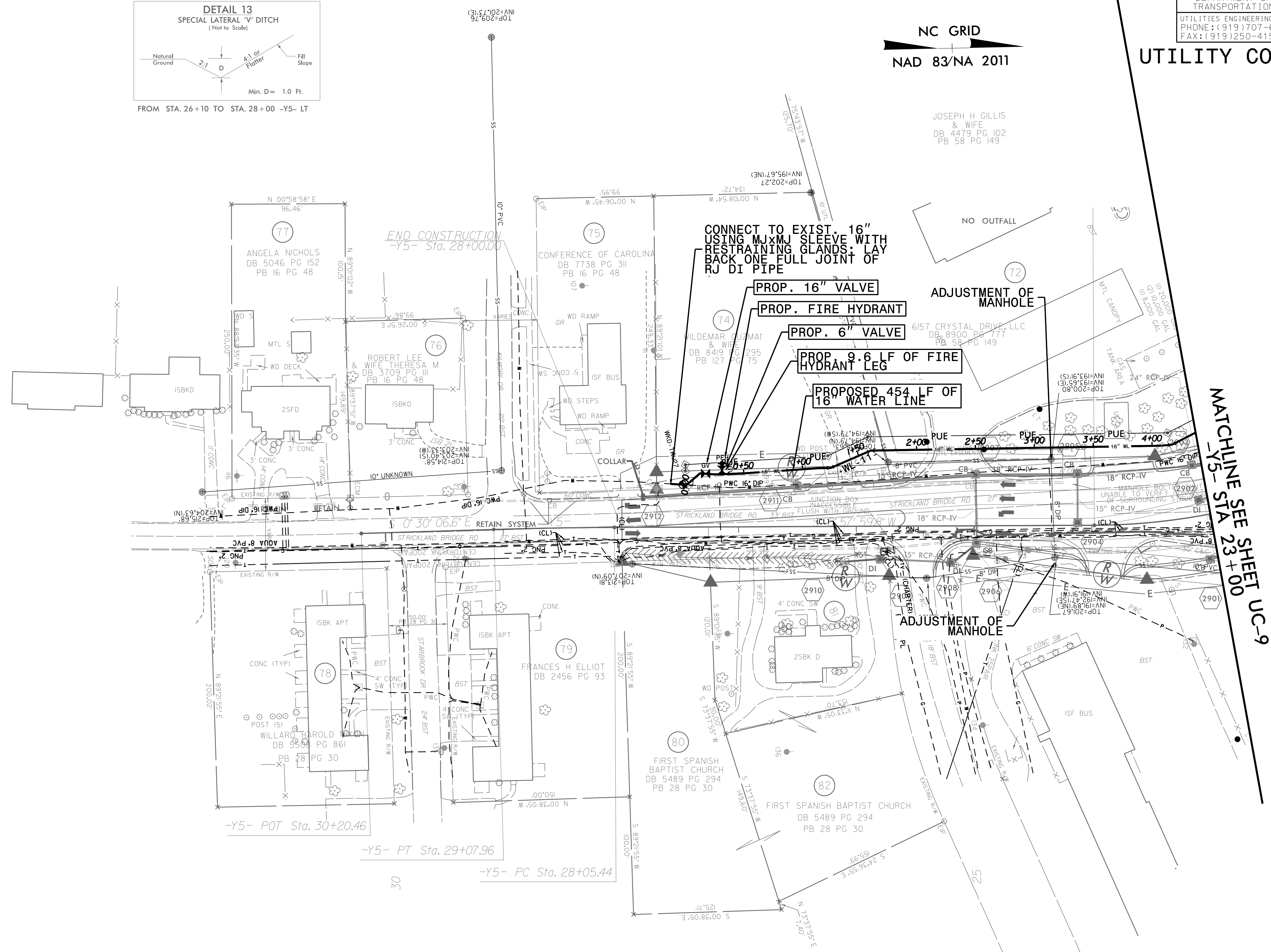
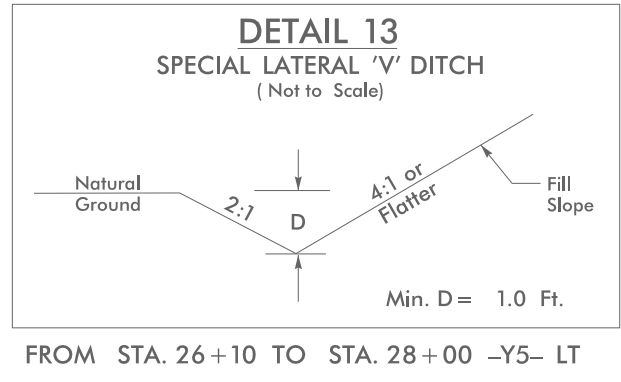
MATCHLINE SEE SHEET 6
-Y4- STA 16+50

NOTE: SEE SHEET 50 FOR -SR1- PROFILE
SEE SHEET 51 FOR -SR2- PROFILE
SEE SHEET 51 FOR -SR3- PROFILE

REVISIONS
 ROW REV. - June 14, 2017 - Revised Final Survey along Parcel 62 (MB)
 31 MAY 2018 14:48
 L:\Projects\2015017700RA Reeford Road NCDOT U 4405\CADD\NCDOT PLANS\Utilities\Engineering\U\Proj\U4405.ut_rdy28.ut28.psh.dgn
 Cumberland County Board of Education
 DB 635 PG 160
 DB 5430 PG 468
 DB 536 PG 404
 DB 517 PG 190

DOCUMENT NOT CONSIDERED FINAL
UNTIL ALL SIGNATURES ARE COMPLETED

NC GRID
NAD 83/NA 2011



MATCHLINE SEE SHEET UC-9
-Y5- STA 23+00

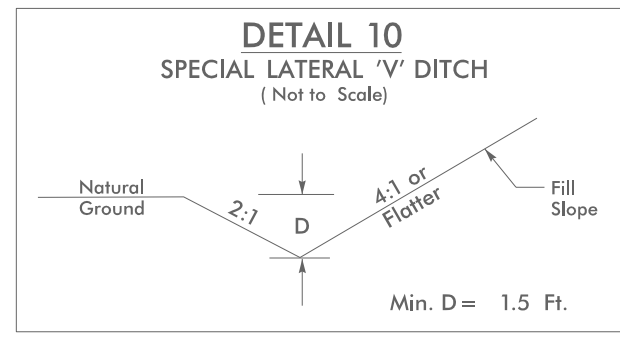
PROPOSED 2,490 POUNDS OF
DUCTILE IRON WATER PIPE FITTINGS

-Y5-	
PI Sta 28+56.71	PI Sta 22+82.12
$\Delta = 1' 28' 06.4''$ (LT)	$\Delta = 25' 18' 13.3''$ (RT)
$D = 1' 25' 56.6''$	$D = 10' 44' 58.8''$
$L = 102.52'$	$L = 235.39'$
$T = 51.26'$	$T = 119.65'$
$R = 4,000.00'$	$R = 533.00'$
	$SE = 0.02$

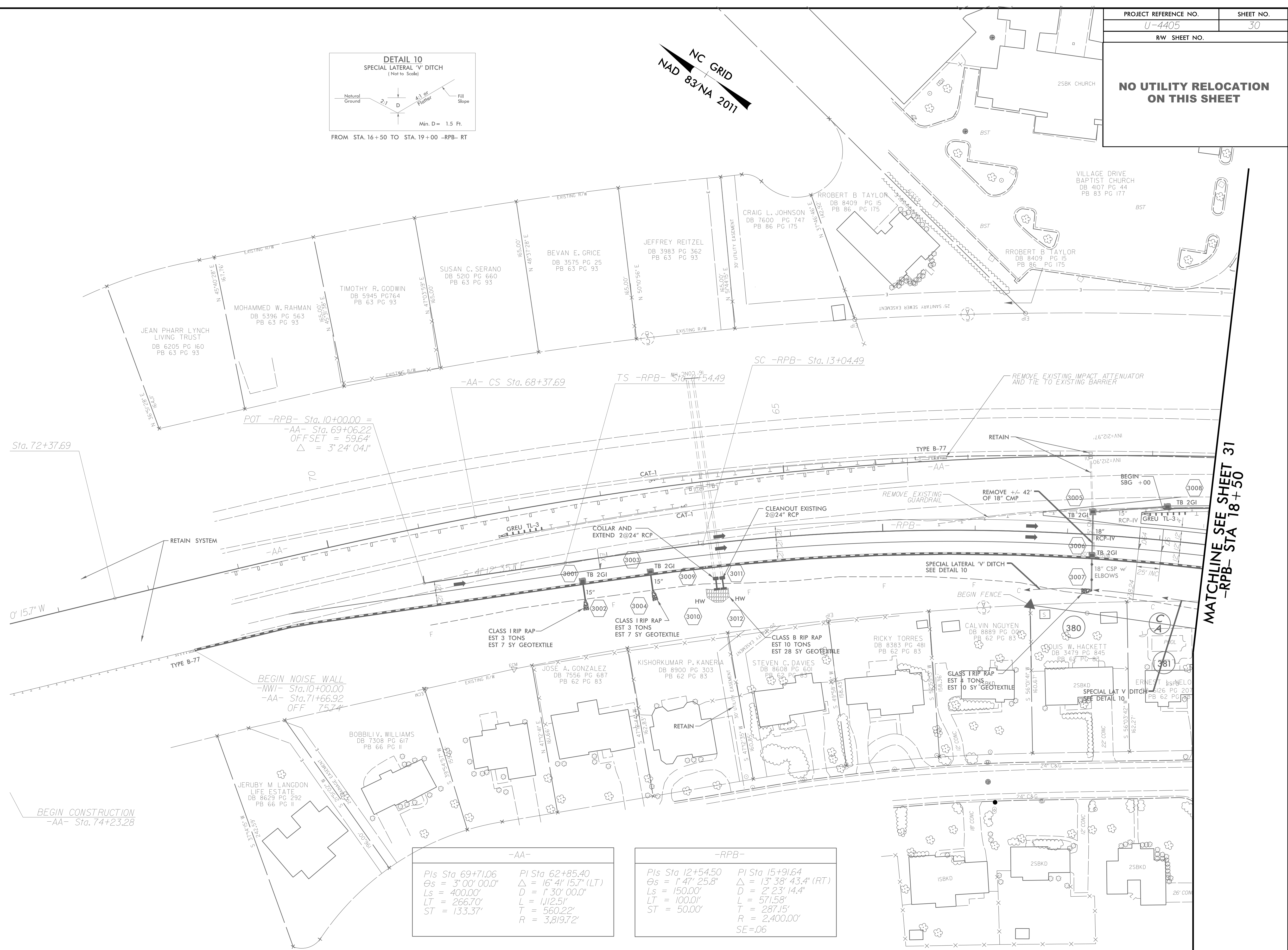
NOTE:
SEE SHEET UC-38 FOR -WL-11 PROFILE

5/14/99
 3-MAY-2018 14:47
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 chuman - AT 11/1/2018

NO UTILITY RELOCATION ON THIS SHEET



NC GRID
NAD 83/NA 2011



-AA-	
PI Sta 69+71.06	PI Sta 62+85.40
Os = 3° 00' 00.0"	Δ = 16° 41' 15.7" (LT)
Ls = 400.00'	D = 1' 30' 00.0"
LT = 266.70'	L = 1,112.51'
ST = 133.37'	T = 560.22'
	R = 3,819.72'

-RPB-	
PIs Sta 12+54.50	PI Sta 15+91.64
Os = 1° 47' 25.8"	Δ = 13° 38' 43.4" (RT)
Ls = 150.00'	D = 2' 23' 14.4"
LT = 100.00'	L = 571.58'
ST = 50.00'	T = 287.15'
	R = 2,400.00'
	SE = 06

MATCHLINE SEE SHEET 31
-RPB- STA 18+50

NOTE: SEE SHEET 45 FOR -RPB- PROFILE

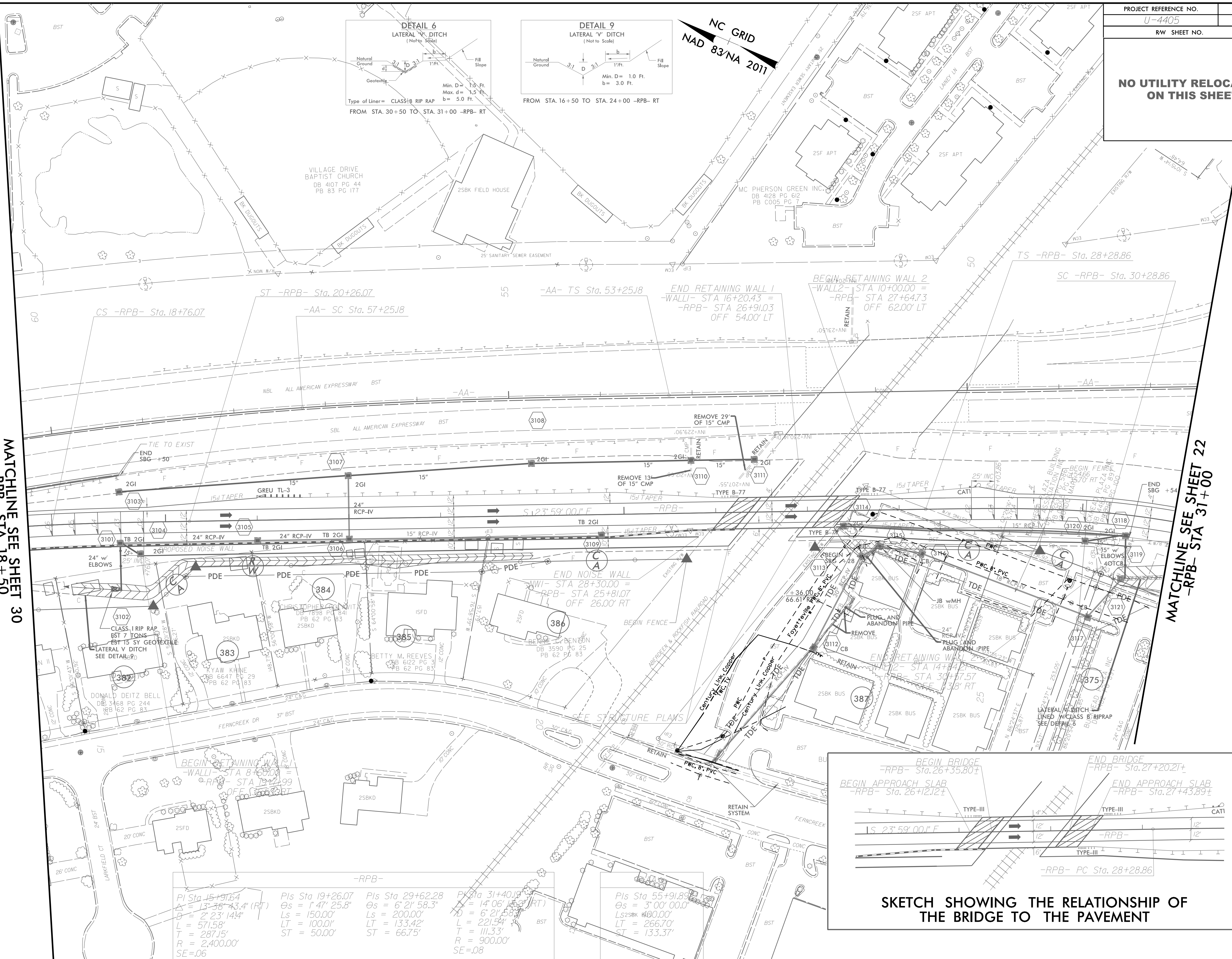
REVISIONS

8/17/99
31-MAY-2018 14:43
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Human

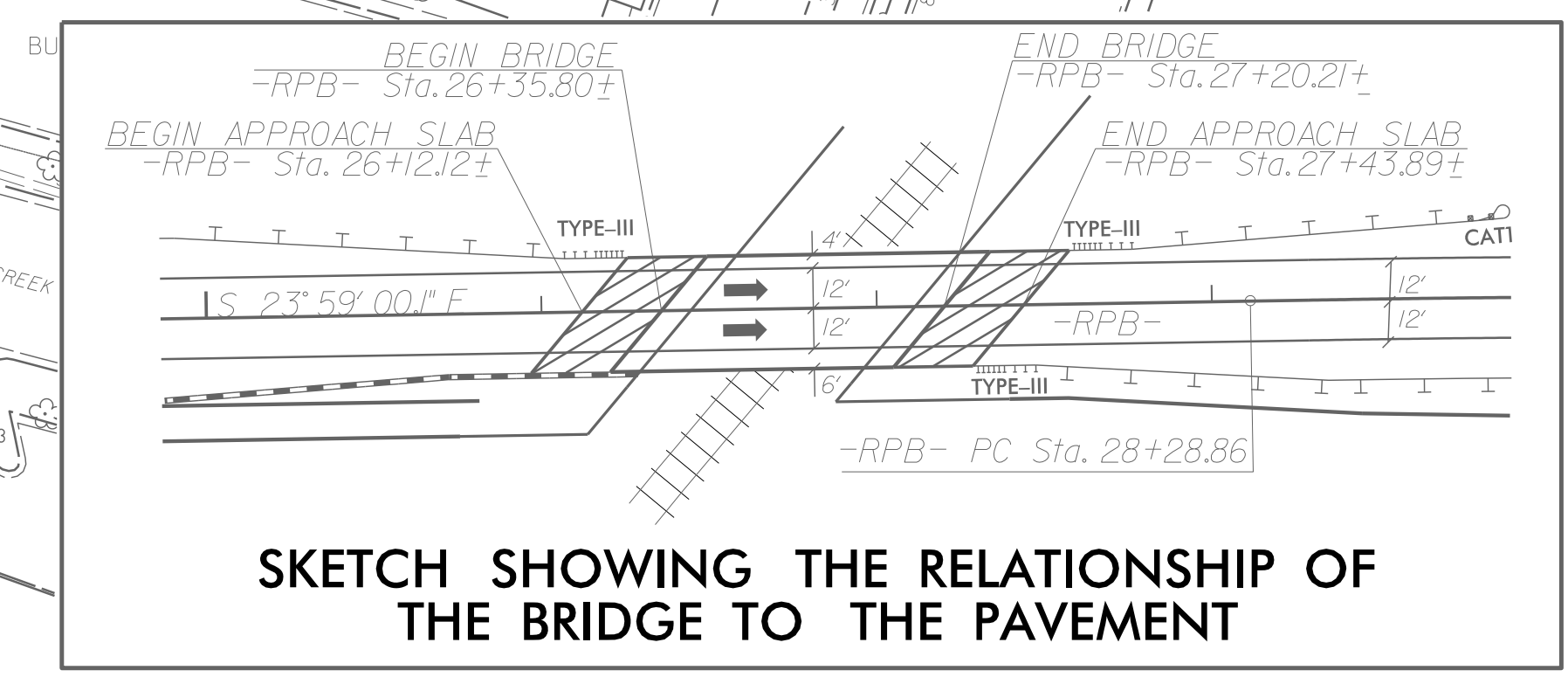
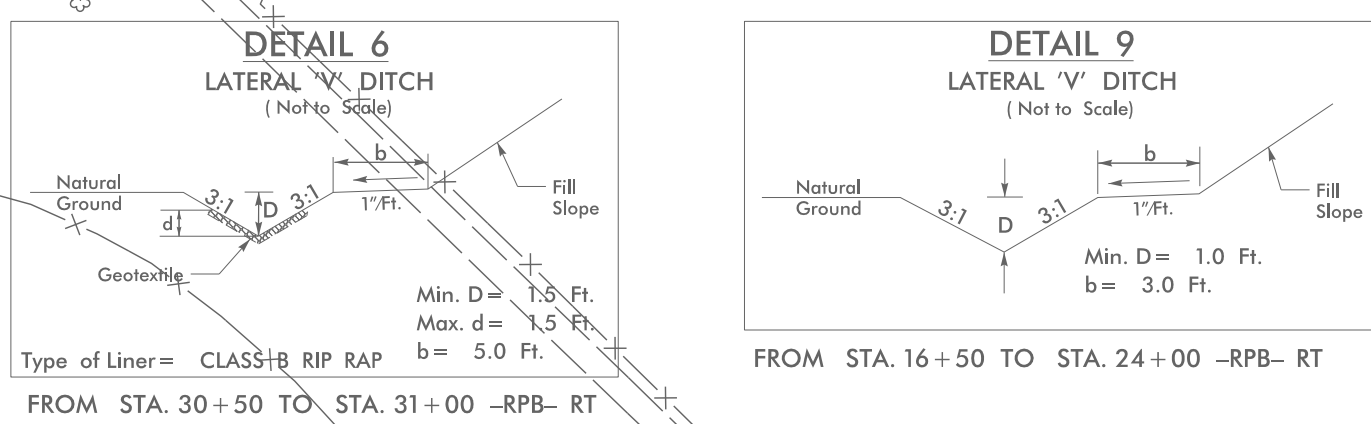
8.17.99
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 L:\Projects\Baltimore\Reeford Road\CDOT\U 4405\CADD\NCDOT PLANS\Utilities\Engineering\NIC\Proj\Nu4405_ut_rdy\31_uc31_psh.dgn
 Baltimore
 CDOT

MATCHLINE SEE SHEET 30
 -RPB- STA 18+50

MATCHLINE SEE SHEET 22
 -RPB- STA 31+00



NC GRID
 NAD 83/NA 2011



Pl Sta 15+91.64 $\Delta = 13^{\circ}38'43.4''$ (RT) $D = 2^{\circ}23'14.4''$ $L = 571.58'$ $T = 287.15'$ $R = 2,400.00'$ $SE = .06$	Pls Sta 19+26.07 $\Theta_s = 1^{\circ}47'25.8''$ $L_s = 150.00'$ $LT = 100.00'$ $ST = 50.00'$	Pls Sta 29+62.28 $\Theta_s = 6^{\circ}21'58.3''$ $L_s = 200.00'$ $L = 133.42'$ $ST = 66.75'$	Pl Sta 31+40.19 $\Theta_s = 14^{\circ}06'18.2''$ (RT) $D = 6^{\circ}21'58.3''$ $L = 221.54'$ $T = 111.33'$ $R = 900.00'$ $SE = .08$	Pls Sta 55+91.89 $\Theta_s = 3^{\circ}00'00.0''$ $L_{S25BK} = 400.00'$ $LT = 266.70'$ $ST = 133.37'$
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SKETCH SHOWING THE RELATIONSHIP OF THE BRIDGE TO THE PAVEMENT

PROJECT REFERENCE NO.	SHEET NO.
U-4405	UC-32
DESIGNED BY: AMH	
DRAWN BY: AMH/AE	
CHECKED BY: AMH	
APPROVED BY: MWF	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SECTION PHONE: (919) 707-6690 FAX: (919) 250-4151	

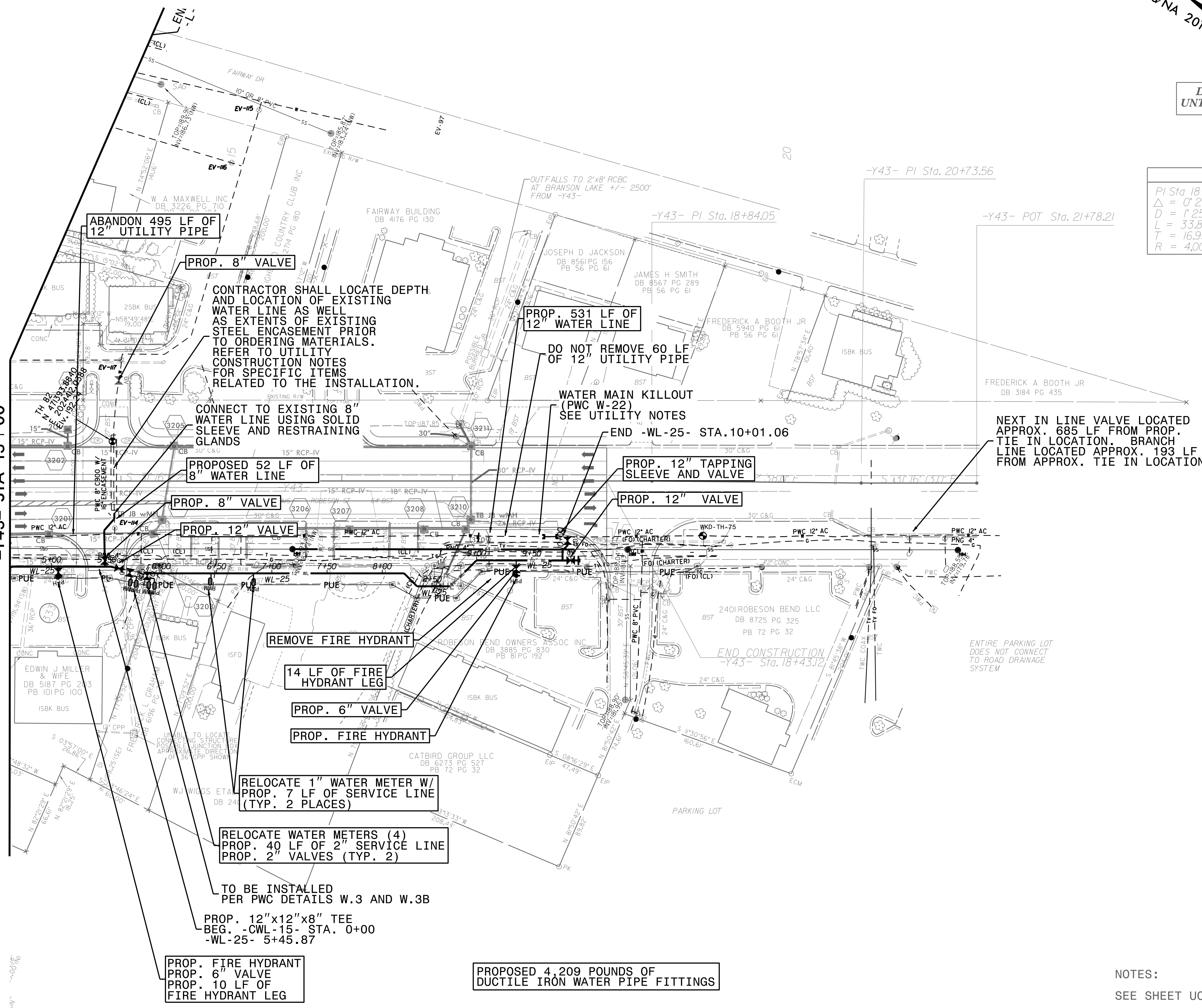
NC GRID
NAD 83/NA 2011

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL
UNTIL ALL SIGNATURES ARE COMPLETED

-Y43-	
PI Sta 18+97.74	PI Sta 21+77.77
$\Delta = 0' 29' 06.2" (RT)$	$\Delta = 0' 28' 56.2" (LT)$
$D = 1' 25' 56.6"$	$D = 1' 25' 56.6"$
$L = 33.86'$	$L = 33.67'$
$T = 16.93'$	$T = 16.83'$
$R = 4,000.00'$	$R = 4,000.00'$

MATCHLINE SEE SHEET UC-27
-Y43- STA 13+00



REVISIONS
UTILITY REV. - JULY 23, 2010 - REVISED TO REFLECT CHANGES TO THE PROPOSED 16\"/>

27-JUL-2018 14:19
L:\Projects\Forvilleville Public Works Commission\201501700PRA Reelford Road NCDOT U 4405\CADD\NCDOT PLANS\Utilities\Engineering\UC\Proj\U4405_ut_rdy\32_uc32_ish.vdgn
1/14/99

NOTES:
SEE SHEET UC-50 & UC-51 FOR -WL-25- PROFILE