

09.08/99

T.I.P. NO.	SHEET NO.
R-5726	UC-1

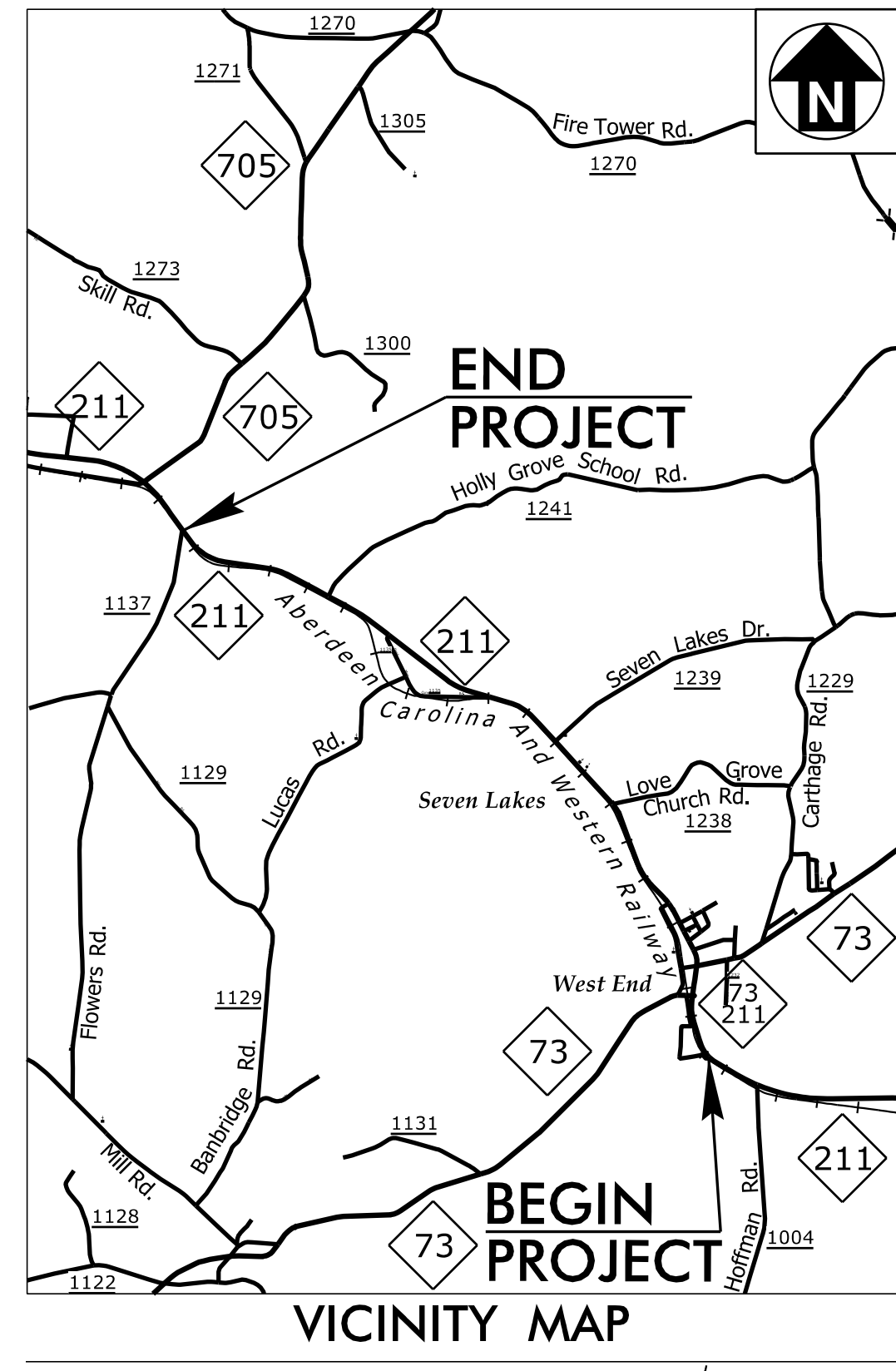
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**UTILITY CONSTRUCTION PLANS
MOORE COUNTY**

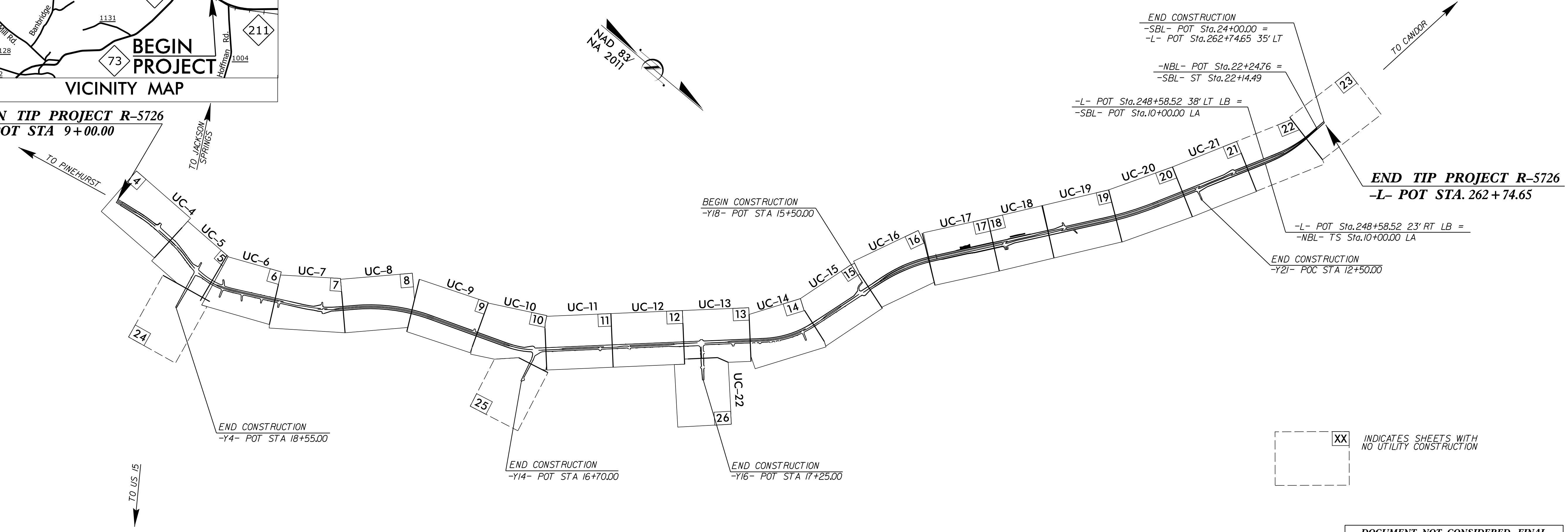
LOCATION: NC 211 FROM SOUTH OF NC 73 IN WEST END
TO NORTH OF SR 1241 (HOLLY GROVE SCHOOL ROAD)

TYPE OF WORK: UTILITY CONSTRUCTION

TIP PROJECT: R-5726

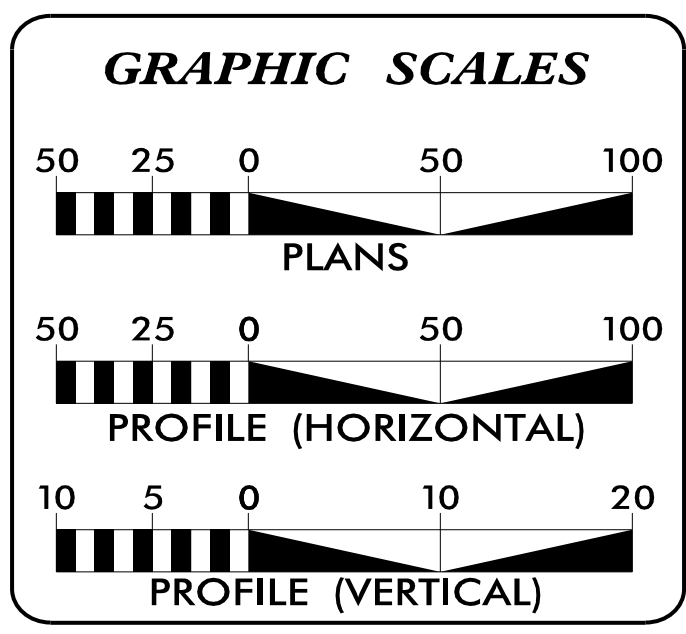


BEGIN TIP PROJECT R-5726
-L- POT STA 9+00.00



XX INDICATES SHEETS WITH NO UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL
UNTIL ALL SIGNATURES ARE COMPLETED



INDEX OF SHEETS

SHEET NO.:	DESCRIPTION:
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOGY
UC-3	UTILITY NOTES
UC-3A THRU UC-3C	UTILITY DETAILS
UC-4 THRU UC-22	UTILITY CONSTR. PLANS
UC-23 THRU UC-37	UTILITY CONSTR. PROFILES

WATER OWNERS ON PROJECT

(A) WATER AND FORCE MAIN SEWER
- MOORE COUNTY PUBLIC UTILITIES (MCPU)

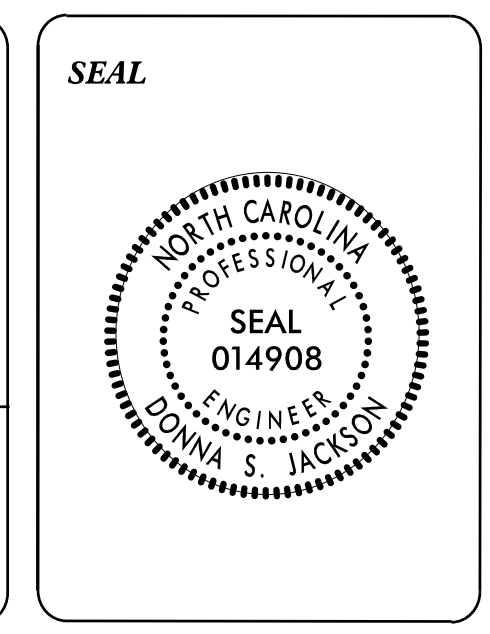
PREPARED IN THE OFFICE OF

M
MOTT
MACDONALD

930 Main Campus Dr.
Raleigh, NC 27606
www.mottmac.com/americas

NC LICENSE NO. F-0669

DONNA JACKSON P.E. CONSULTANT CONTACT #1
PADDY JORDAN CONSULTANT CONTACT #2



**DIVISION OF HIGHWAYS
UTILITIES UNIT**

1555 MAIL SERVICES CENTER
RALEIGH, NC 27699-1555
PHONE (919) 707-6690
FAX (919) 250-4151

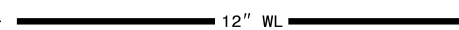

























ALI KOUCHEKI P.E. UTILITIES REGIONAL ENGINEER

7/8/2024 R:\Utilities\Engineering\UC\Proj\280_00_r5726_ut_tsh_UC1_psh.dgn JOR66165

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

UTILITIES PLAN SHEET SYMBOLS





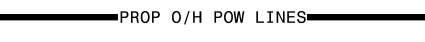
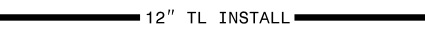
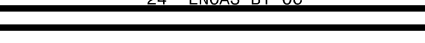
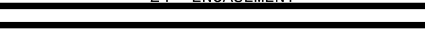
PROPOSED WATER SYMBOLS








Water Line (Sized as Shown)	
11 1/4 Degree Bend	
22 1/2 Degree Bend	
45 Degree Bend	
90 Degree Bend	
Plug	
Tee	
Cross	
Reducer	
Gate Valve	
Butterfly Valve	
Tapping Valve	
Line Stop	
Line Stop with Bypass	
Blow Off	
Fire Hydrant	
Relocate Fire Hydrant	
Remove Fire Hydrant	
Water Meter	
Relocate Water Meter	
Remove Water Meter	
Water Pump Station	
RPZ Backflow Preventer	
DCV Backflow Preventer	
Relocate RPZ Backflow Preventer	
Relocate DCV Backflow Preventer	

PROPOSED SEWER SYMBOLS

Gravity Sewer Line (Sized as Shown)	
Force Main Sewer Line (Sized as Shown)	
Manhole (Sized per Note)	
Sewer Pump Station	

PROPOSED MISCELLANEOUS UTILITIES SYMBOLS

Power Pole	
Telephone Pole	
Joint Use Pole	
Telephone Pedestal	
Utility Line by Others (Type as Shown)	
Trenchless Installation	
Encasement by Open Cut	
Encasement	

Thrust Block	
Air Release Valve	
Utility Vault	
Concrete Pier	
Steel Pier	
Plan Note	
Pay Item Note	

EXISTING UTILITIES SYMBOLS

Power Pole		*Underground Power Line	
Telephone Pole		*Underground Telephone Cable	
Joint Use Pole		*Underground Telephone Conduit	
Utility Pole		*Underground Fiber Optics Telephone Cable	
Utility Pole with Base		*Underground TV Cable	
H-Frame Pole		*Underground Fiber Optics TV Cable	
Power Transmission Line Tower		*Underground Gas Pipeline	
Water Manhole		Aboveground Gas Pipeline	
Power Manhole		*Underground Water Line	
Telephone Manhole		Aboveground Water Line	
Sanitary Sewer Manhole		*Underground Gravity Sanitary Sewer Line	
Hand Hole for Cable		Aboveground Gravity Sanitary Sewer Line	
Power Transformer		*Underground SS Forced Main Line	
Telephone Pedestal		Underground Unknown Utility Line	
CATV Pedestal		SUE Test Hole	
Gas Valve		Water Meter	
Gas Meter		Water Valve	
Located Miscellaneous Utility Object		Fire Hydrant	
Abandoned According to Utility Records	AATUR	Sanitary Sewer Cleanout	
End of Information	E.O.I.		

*For Existing Utilities
 Utility Line Drawn from Record (Type as Shown) 
 Designated Utility Line (Type as Shown) 


5/14/99

7/8/2024
 C:\Engineering\Projects\280_002_r5726-ut_sym_UC2_psh.dgn
 JDR6666

5/14/99
7/8/02/Proj/280.003.r-5726-ut.mctes.UC3.psh.dgn
Engineer: JHB

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	R-5726	SHEET NO.	UC-3
DESIGNED BY:	DSJ		UTILITY CONSTRUCTION PLANS ONLY
DRAWN BY:	PJ		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION			
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151			

GENERAL NOTES:

1. THE PROPOSED UTILITY CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2018.
2. THE EXISTING UTILITIES BELONG TO MOORE COUNTY PUBLIC UTILITIES (MCPU).
3. ALL WATER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER RESOURCES, PUBLIC WATER SUPPLY SECTION. ALL SEWER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT QUALITY, DIVISION OF WATER RESOURCES, WATER QUALITY SECTION. PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODES.
4. THE UTILITY OWNER OWNS THE EXISTING UTILITY FACILITIES AND WILL OWN THE NEW UTILITY FACILITIES AFTER ACCEPTANCE BY THE DEPARTMENT. THE DEPARTMENT OWNS THE CONSTRUCTION CONTRACT AND HAS ADMINISTRATIVE AUTHORITY. COMMUNICATIONS AND DECISIONS BETWEEN THE CONTRACTOR AND UTILITY OWNER ARE NOT BINDING UPON THE DEPARTMENT OR THIS CONTRACT UNLESS AUTHORIZED BY THE ENGINEER. AGREEMENTS BETWEEN THE UTILITY OWNER AND CONTRACTOR FOR THE WORK THAT IS NOT PART OF THIS CONTRACT OR IS SECONDARY TO THIS CONTRACT ARE ALLOWED, BUT ARE NOT BINDING UPON THE DEPARTMENT.
5. PROVIDE ACCESS FOR THE DEPARTMENT PERSONNEL AND THE OWNER'S REPRESENTATIVES TO ALL PHASES OF CONSTRUCTION. NOTIFY DEPARTMENT PERSONNEL AND THE UTILITY OWNER TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK AND ONE WEEK PRIOR TO SERVICE INTERRUPTION. KEEP UTILITY OWNERS' REPRESENTATIVES INFORMED OF WORK PROGRESS AND PROVIDE OPPORTUNITY FOR INSPECTION OF CONSTRUCTION AND TESTING.

6. LOCATIONS OF EXISTING SHOWN UTILITIES ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE SIZE, DEPTH, MATERIAL AND LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION AND TO TAKE WHATEVER STEPS ARE NECESSARY TO PROVIDE FOR THEIR PROTECTION. THE ENGINEER HAS ATTEMPTED TO LOCATE AND INDICATE ALL EXISTING FACILITIES ON THE PLANS; HOWEVER, THIS INFORMATION IS SHOWN FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY FOR THE LOCATIONS OF UTILITIES SHOWN OR NOT SHOWN. PRIOR TO DIGGING ON AND OFF SITE, THE CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED BY "NC 811" 1-800-632-4949. THE CONTRACTOR SHALL CONTACT ANY UTILITY COMPANY WHOSE UTILITIES ARE NOT LOCATED BY "NC 811" FOR EXACT LOCATION OF THEIR UTILITIES PRIOR TO STARTING CONSTRUCTION. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND/OR REPLACE ANY AND ALL DAMAGE MADE TO UTILITIES BY THE CONTRACTOR TO PRECONSTRUCTION CONDITIONS AT THE CONTRACTOR'S EXPENSE.

7. DEPTH AND LOCATION OF BURIED DATA, TELEPHONE, AND CATV CABLES (FIBER OPTICS AND CONVENTIONAL) ARE KNOWN TO VARY DUE TO INSTALLATION TECHNIQUES. CONTRACTOR SHALL COORDINATE ITS WORK WITH CONFLICTING DATA, TELEPHONE, AND CATV CABLES AS NECESSARY FOR INSTALLATION OF THE PROPOSED WATER AND SEWER. COORDINATION WITH EXISTING UTILITIES SHALL BE INCLUDED IN THE PROJECT SCHEDULE. COORDINATION AND PHASING RELATED TO EXISTING UTILITIES ARE INCLUSIVE TO THE PROJECT AND NO SPECIFIC OR ADDITIONAL PAYMENT SHALL BE MADE.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH UTILITY PROVIDERS ANY SUPPORT OF EXISTING UTILITY POLES OR OTHER ITEMS AS REQUIRED FOR TRENCH EXCAVATION, AT NO ADDITIONAL COST TO THE DEPARTMENT.

9. THE CONTRACTOR SHALL VERIFY THE VOLTAGES OF ALL ELECTRICAL UTILITIES AND FOLLOW THE APPROPRIATE OSHA STANDARDS WHEN WORKING IN THEIR VICINITY.

10. MAKE FINAL CONNECTIONS OF THE NEW WORK TO THE TO THE EXISTING SYSTEM WHERE INDICATED ON THE PLANS, AS REQUIRED TO FIT THE ACTUAL CONDITIONS, OR AS DIRECTED.

11. MAKE CONNECTIONS BETWEEN EXISTING AND PROPOSED UTILITIES AT TIMES MOST CONVENIENT TO THE PUBLIC, WITHOUT ENDANGERING THE UTILITY SERVICE, AND IN ACCORDANCE WITH THE UTILITY OWNERS' REQUIREMENTS. MAKE CONNECTIONS ON WEEKENDS, AT NIGHT, AND ON HOLIDAYS IF NECESSARY.

12. ALL UTILITY MATERIALS SHALL BE APPROVED PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, "SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.

PROJECT SPECIFIC NOTES:

1. CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107, AND 1550 OF THE STANDARD SPECIFICATIONS CONCERNING TRENCHLESS INSTALLATION. IT IS CONTRACTOR'S RESPONSIBILITY TO HAVE BORE DESIGNED AND SEALED BY A LICENSED NORTH CAROLINA PROFESSIONAL ENGINEER. NO DAMAGE IS ALLOWED TO RIVER, WETLANDS, OR BUFFER ZONES.
2. IF HDPE PIPE IS INSTALLED BY DIRECTIONAL DRILL. AFTER DIRECTIONAL DRILLING, HDPE PIPE SHALL BE ALLOWED TO RETRACT (RELEASE) FOR 30 DAYS AFTER WHICH CONNECTION SHALL BE MADE TO THE THREE JOINTS OF DIP WITH RESTRAINED MECHANICAL JOINTS, GATE VALVES, AND REDUCERS. THE VALVE SHALL BE PLACED BETWEEN THE FIRST AND SECOND JOINT OF DIP AT EACH END OF THE HDPE.
3. ALL EXISTING WATER SERVICES ON WATER MAINS TO BE TAKEN OUT OF SERVICE SHALL BE REPLACED WITH A NEW SERVICE, METER SETTERS AND METER BOX OF EQUAL SIZE IN ACCORDANCE WITH MCPU STANDARDS.
4. WELL IN ADVANCE OF BEGINNING UTILITY WORK, SOFT DIGS SHALL BE PERFORMED BY CONTRACTOR TO VERIFY ACTUAL WATER LINE DEPTH AND MATERIAL AT PROPOSED TIE-IN LOCATIONS.
5. LAY PIPE STRAIGHT IN ALIGNMENT AND GRADIENT OR FOLLOW TRUE CURVES AS NEARLY AS POSSIBLE. DO NOT DEFLECT ANY JOINT MORE THAN THE MAXIMUM DEFLECTION RECOMMENDED BY THE MANUFACTURER.
6. ANY SERVICE INTERRUPTIONS SHALL BE SCHEDULED FOR MINIMAL IMPACT TO CUSTOMERS AND APPROVED BY MOORE COUNTY.
7. MOORE COUNTY AND NCDOT HAVE RIGHT-OF-ENTRY TO THE PROJECT SITE.
8. THE PROPOSED PIPELINE SHALL BE INSTALLED AT THE DEPTHS SHOWN IN THE PROFILE TO AVOID HIGH POINTS THAT CAN TRAP AIR. ALL COST FOR INSTALLATION IN DEEPER CUTS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND SHOULD BE INCLUDED IN THE PRICE FOR FORCE MAIN AND WATER MAIN INSTALLATION.
9. ALL CARRIER PIPE IN AN ENCASEMENTS SHALL BE RESTRAINED JOINT DUCTILE IRON PIPE.

10. FOR EACH WATERLINE RELOCATION, THE CONTRACTOR SHALL PROVIDE THE UTILITY OWNER WITH A DETAILED SERVICE INTERRUPTION AND INSTALLATION PLAN FOR APPROVAL AT LEAST SEVEN (7) DAYS PRIOR TO THE RELOCATION. AT A MINIMUM, THIS PLAN SHALL ADDRESS THE FOLLOWING:

- A. SEQUENCE OF CONSTRUCTION OPERATIONS FOR EACH RELOCATION.
- B. PROCEDURE FOR FLUSHING, TESTING, AND DISINFECTION OF ALL AFFECTED PIPING AND VALVES, AS REQUIRED BY THE UTILITY OWNER.


11. NO INTERRUPTION OF SERVICE WILL BE PERMITTED UNTIL THE FORGOING PLAN HAS BEEN APPROVED BY THE UTILITY OWNER. THE UTILITY OWNER'S PERSONNEL SHALL OPERATE THE UTILITY OWNER'S EXISTING FACILITIES INVOLVED IN THE INTERRUPTIONS OF SERVICE.

12. PLANNED SERVICE CONNECTION INTERRUPTIONS SHALL LAST NO LONGER THAN 4 HOURS UNLESS OTHERWISE APPROVED BY THE UTILITY OWNER. ALL INTERRUPTIONS OF SERVICE SHALL BE COORDINATED WITH AND SCHEDULED AT TIMES ACCEPTABLE TO THE UTILITY OWNER.

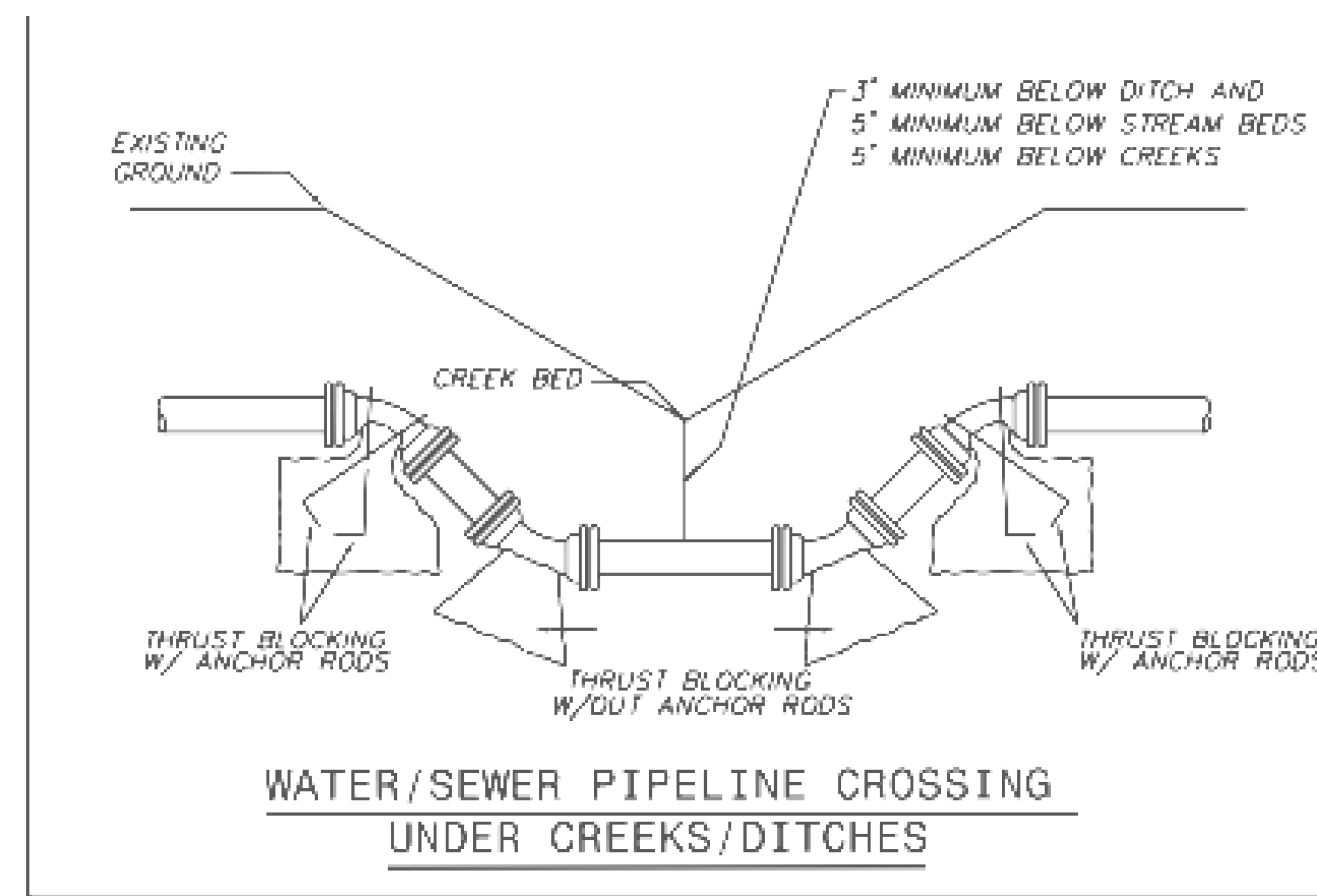
13. WRITTEN WATER SERVICE INTERRUPTION NOTICES SHALL BE PROVIDED TO ALL AFFECTED CUSTOMERS AT LEAST 72 HOURS PRIOR TO EACH PLANNED INTERRUPTION.

CONSTRUCTION NOTES:

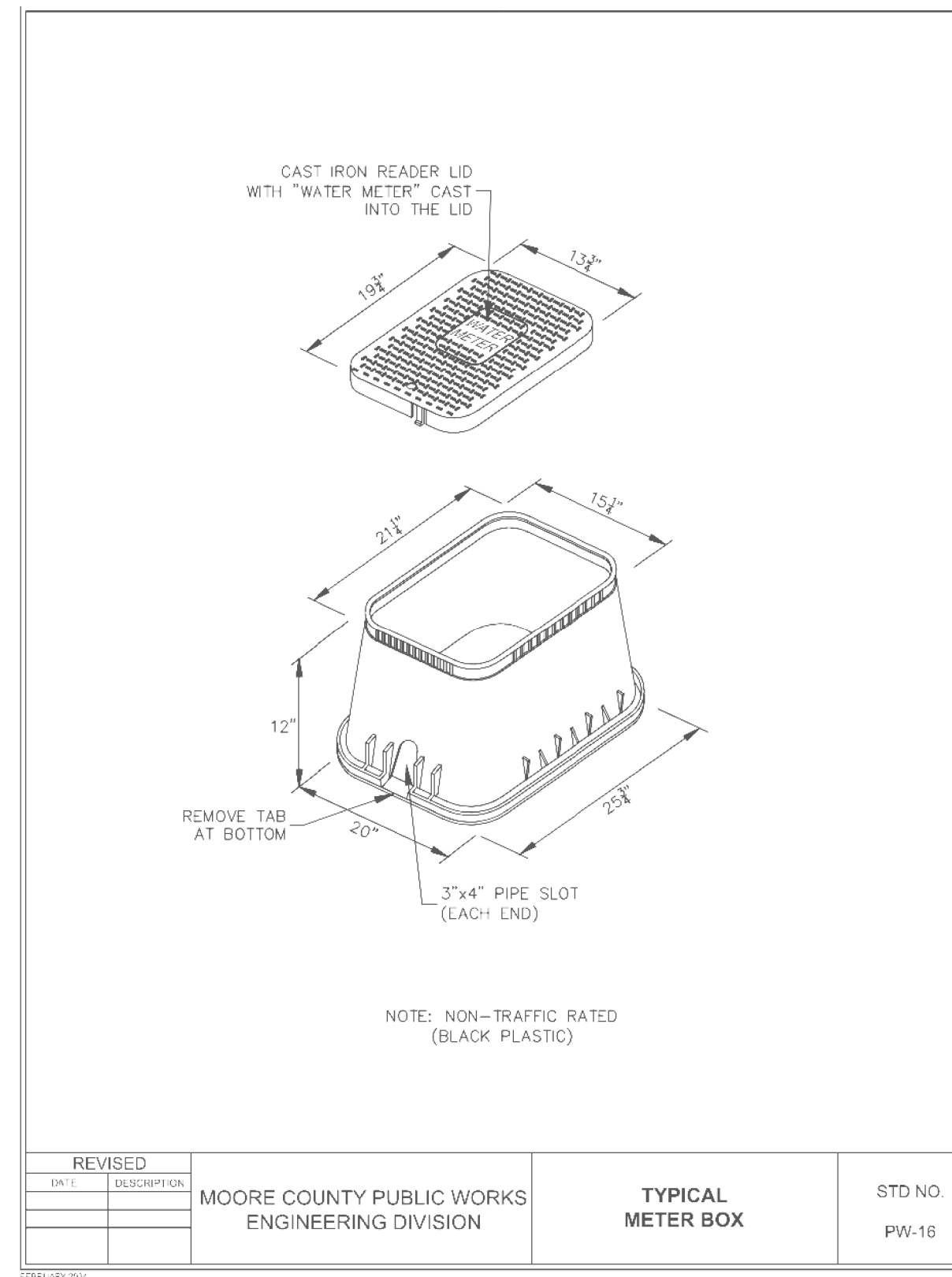
1. PIPE SEPARATION: THE FOLLOWING MINIMUM PIPE SEPARATION WILL BE MAINTAINED: 12 INCHES VERTICAL SEPARATION BETWEEN CROSSING OF STORM SEWERS, 18 INCHES VERTICAL SEPARATION BETWEEN CROSSING OF SEWER (INCLUDING FORCE MAINS) AND WATER MAINS, OR 10 FEET HORIZONTAL SEPARATION BETWEEN SANITARY SEWER (INCLUDING FORCE MAINS) AND WATER MAINS. IF THESE SEPARATIONS CANNOT BE MAINTAINED, DUCTILE IRON PIPE WILL BE USED 10 FEET EITHER SIDE OF CROSSING AND ALONG ENTIRE LENGTH OF LINE LESS THAN 10 HORIZONTAL FEEL FROM WATER MAINS. THE CONTRACTOR SHALL RECEIVE APPROVAL FROM THE ENGINEER IN THE FIELD BEFORE PAYMENT WILL BE MADE AT DUCTILE IRON PRICES.

PROJECT REFERENCE NO.	R-5726	SHEET NO.	UC-3A
DESIGNED BY:	DSJ		
DRAWN BY:	PJ		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION			
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		UTILITY CONSTRUCTION PLANS ONLY	

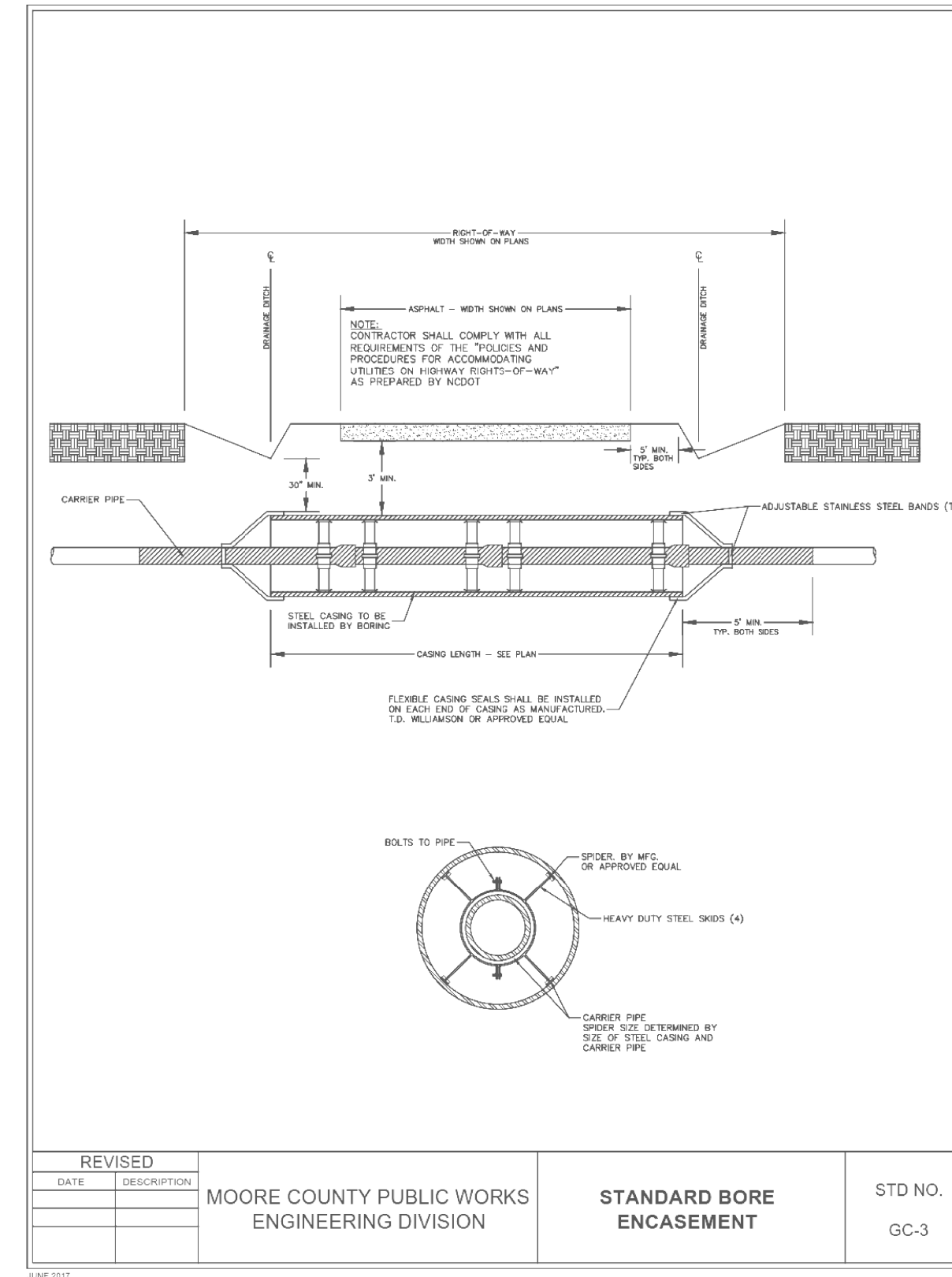
UTILITY CONSTRUCTION



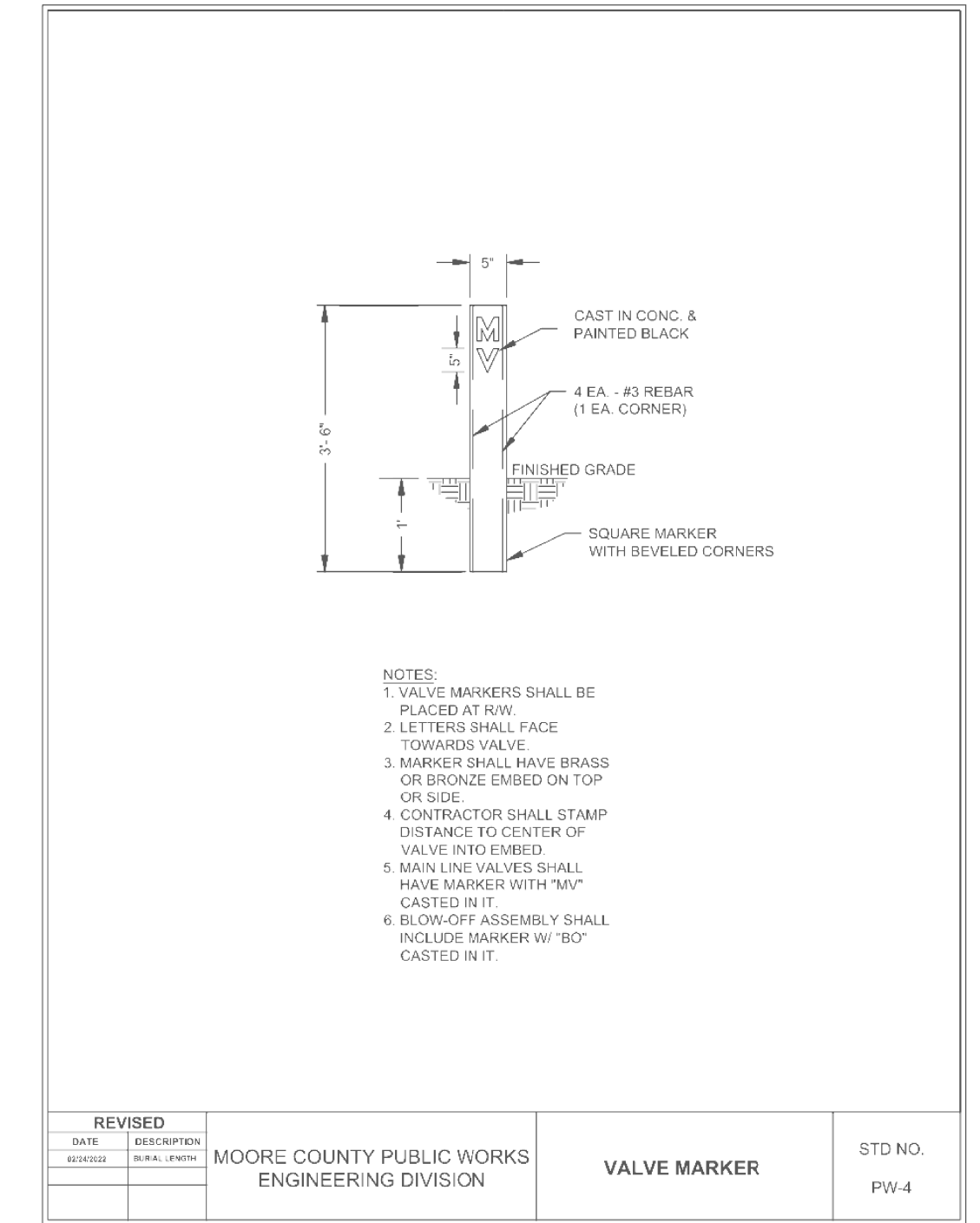
REVISED	DATE	DESCRIPTION	MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	DIRECTIONAL DRILL HDPE	STD NO.
					GC-4



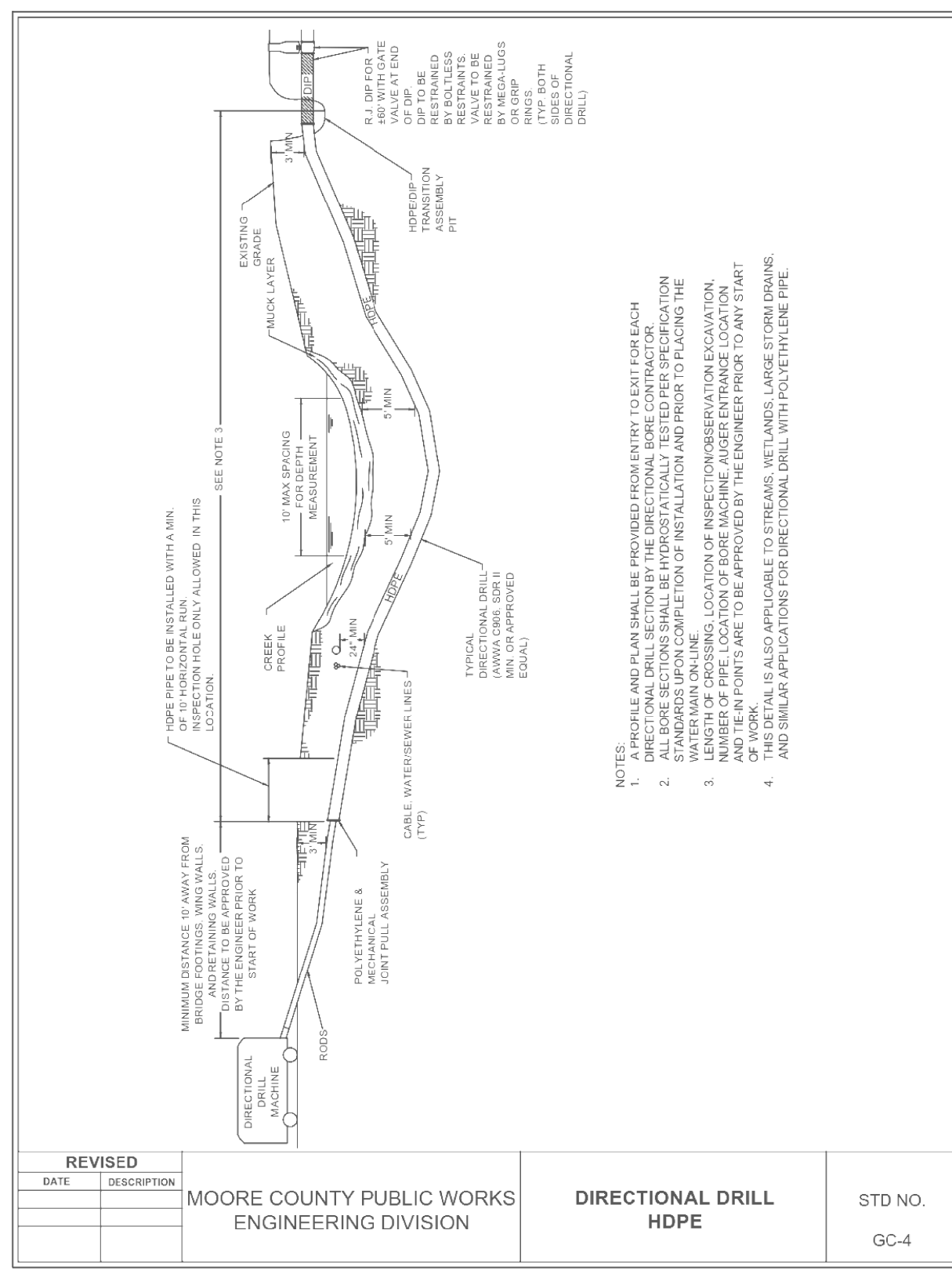
REVISED	DATE	DESCRIPTION	MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	TYPICAL METER BOX	STD NO.
					PW-16



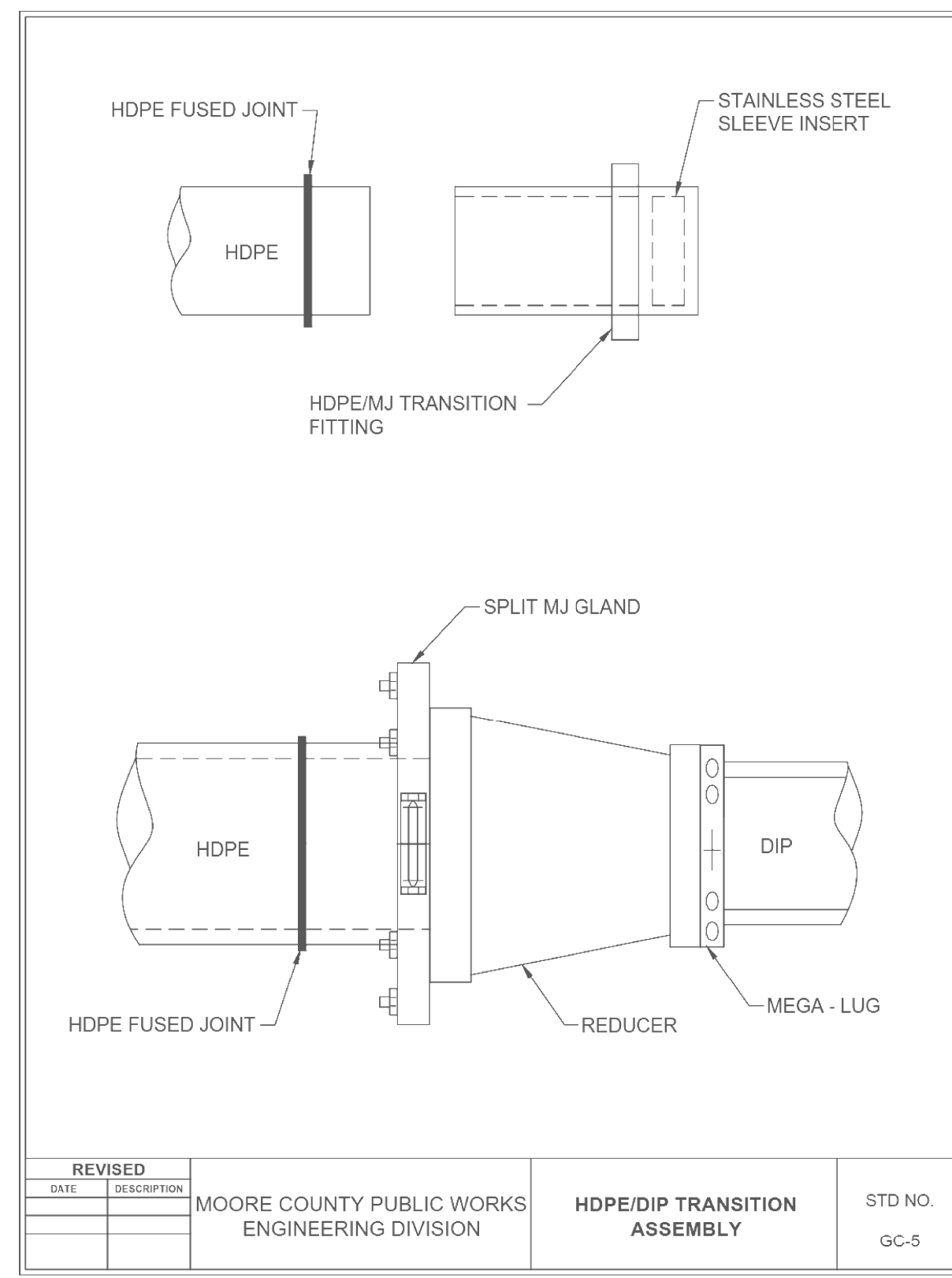
REVISED	DATE	DESCRIPTION	MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	STANDARD BORE ENCASEMENT	STD NO.
					GC-3



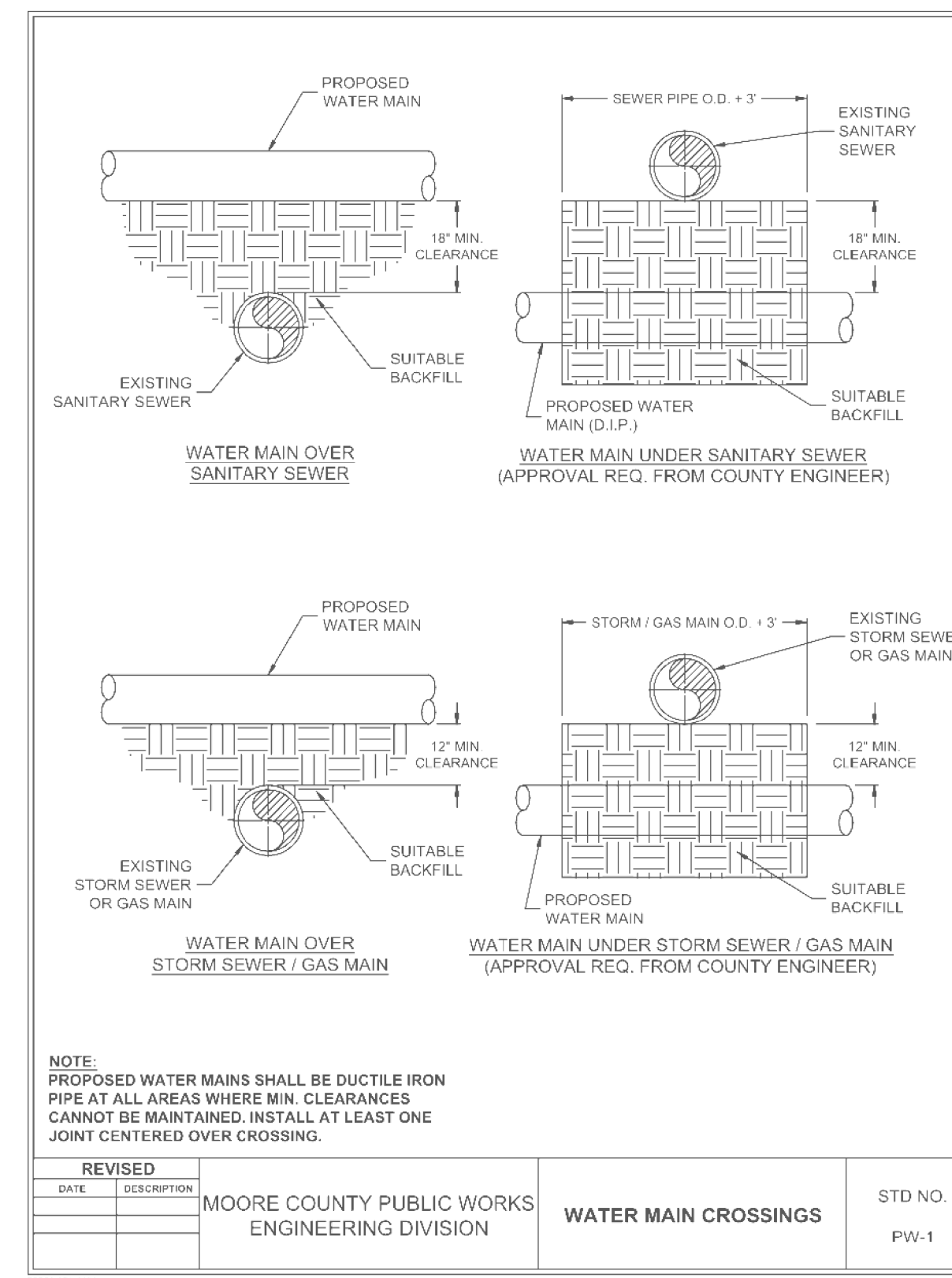
REVISED	DATE	DESCRIPTION	MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	VALVE MARKER	STD NO.
					PW-4



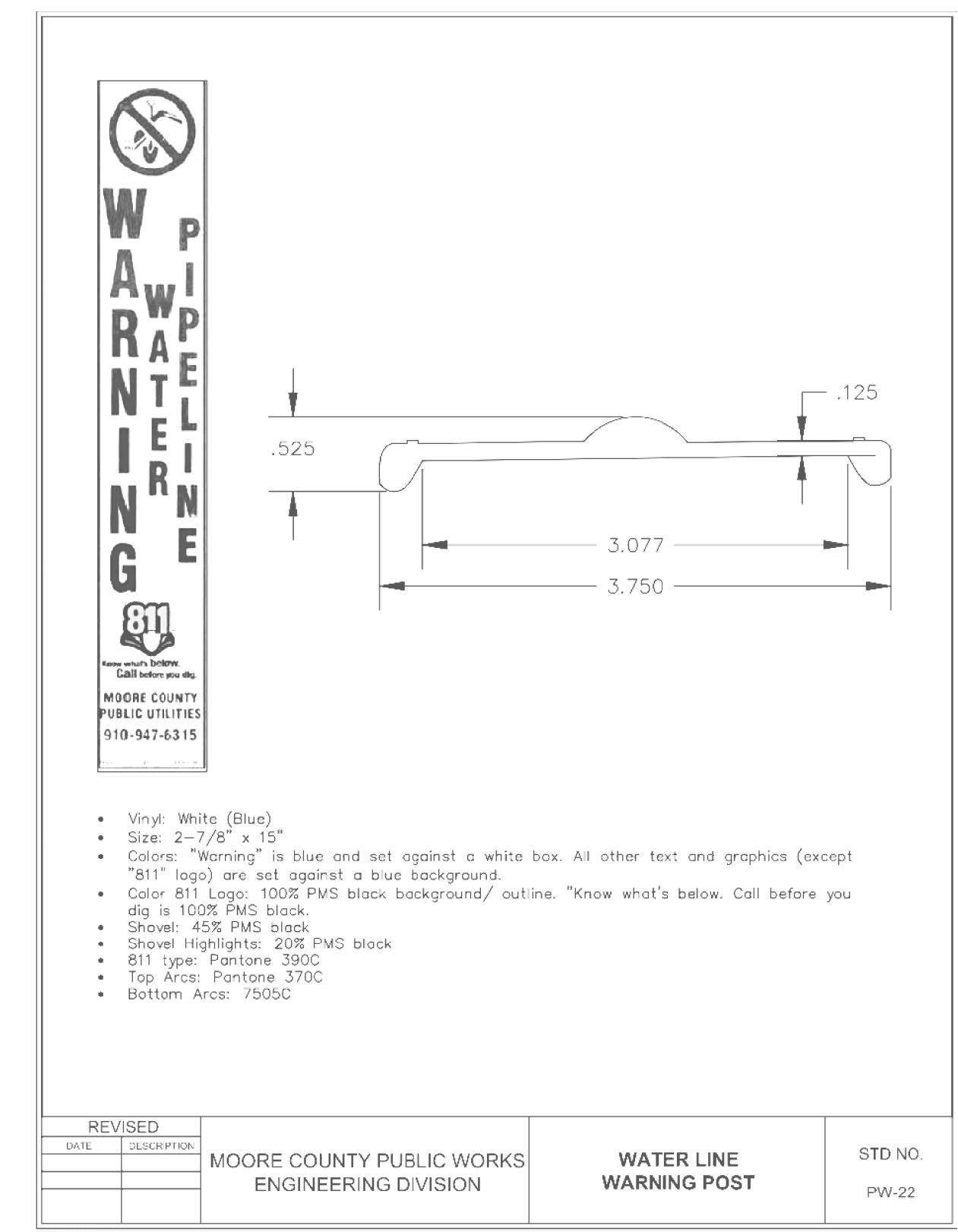
REVISED	DATE	DESCRIPTION	MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	DIRECTIONAL DRILL HDPE	STD NO.
					GC-4



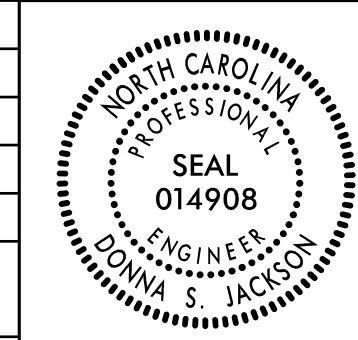
REVISED	DATE	DESCRIPTION	MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	HDPE/DIP TRANSITION ASSEMBLY	STD NO.
					GC-5



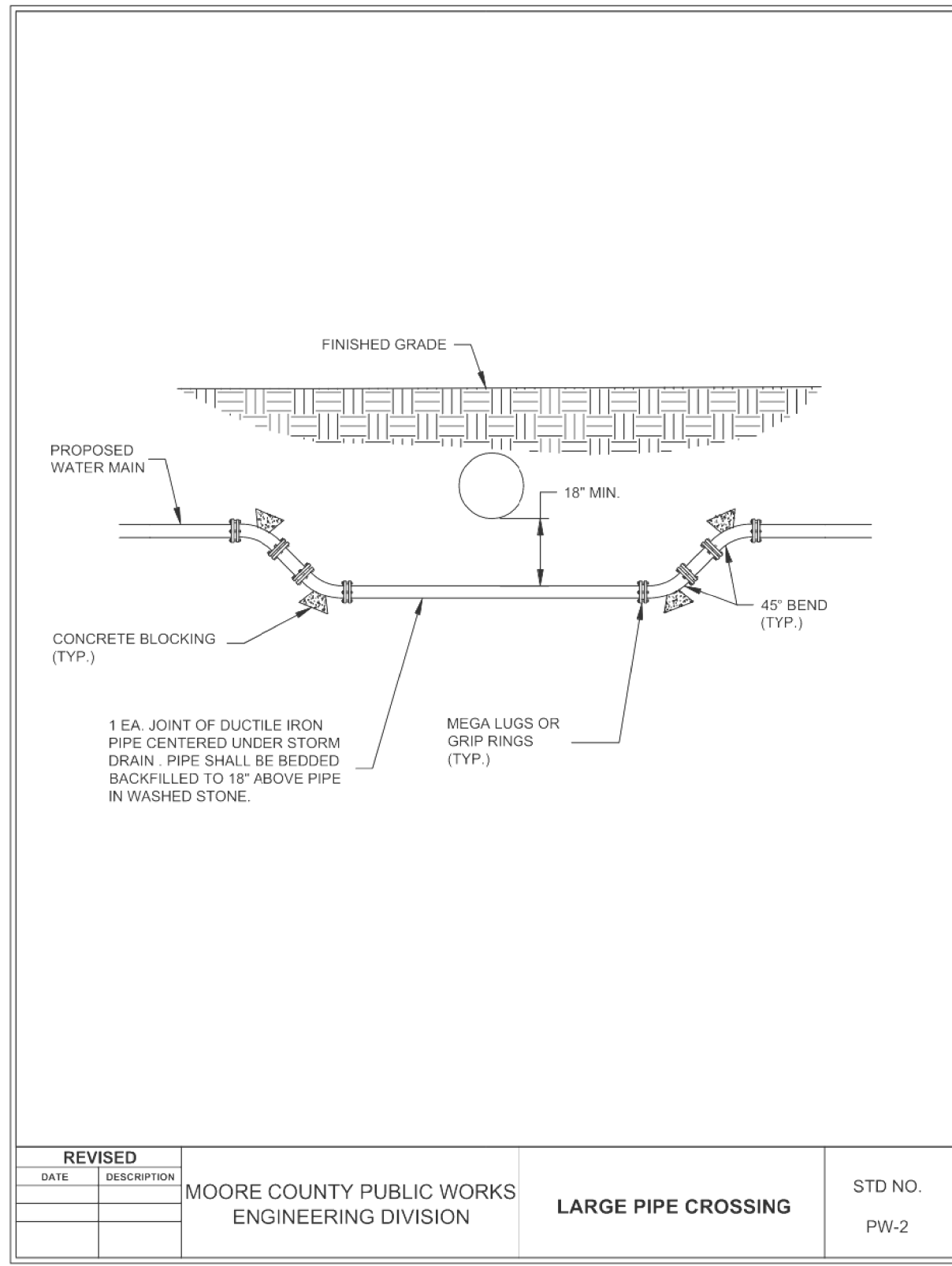
REVISED	DATE	DESCRIPTION	MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	WATER MAIN CROSSINGS	STD NO.
					PW-1



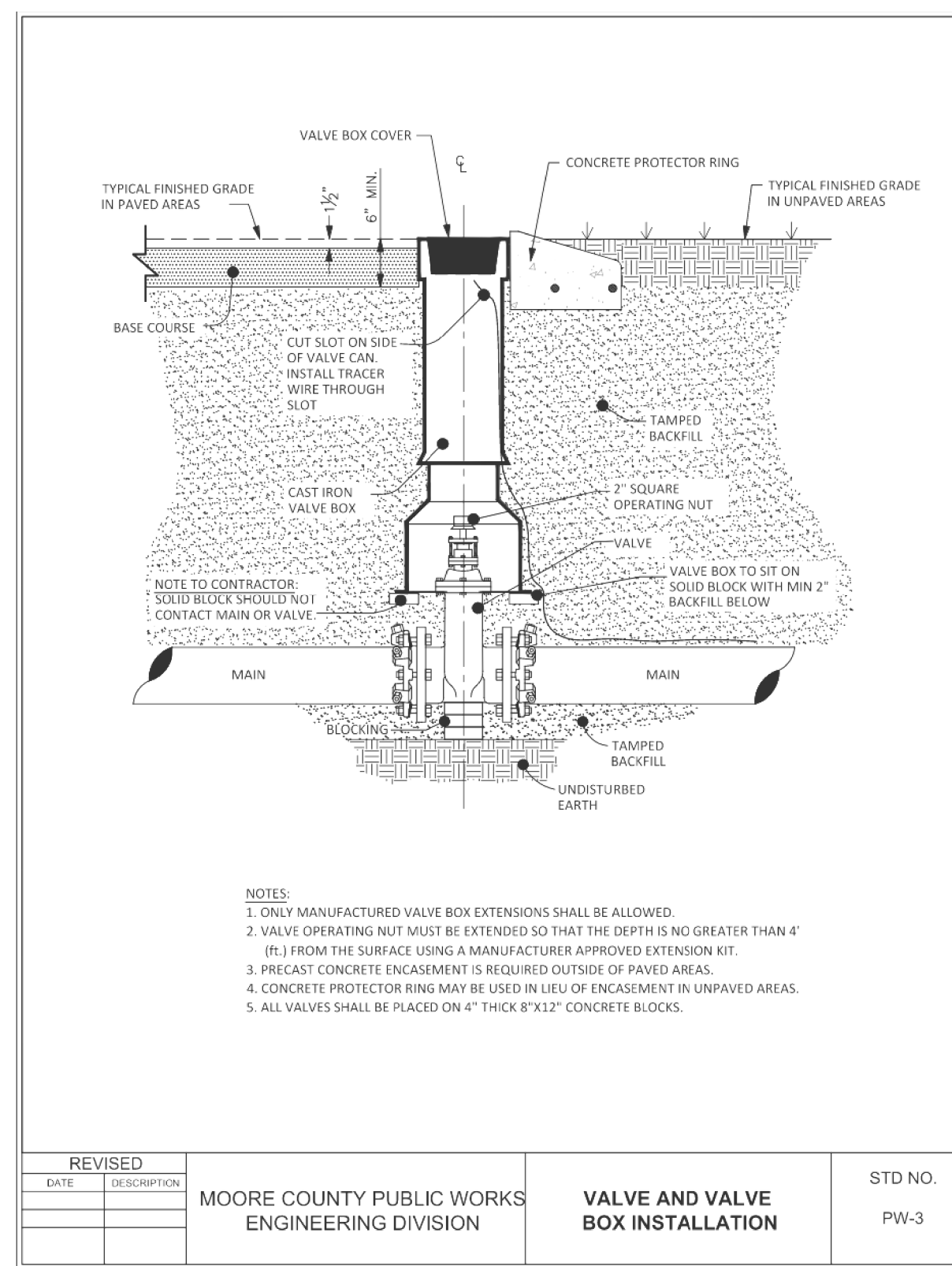
REVISED	DATE	DESCRIPTION	MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	WATER LINE WARNING POST	STD NO.
					PW-22



UTILITY CONSTRUCTION



REVISOR	DATE	DESCRIPTION	MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	LARGE PIPE CROSSING	STD NO. PW-2
---------	------	-------------	---	---------------------	-----------------

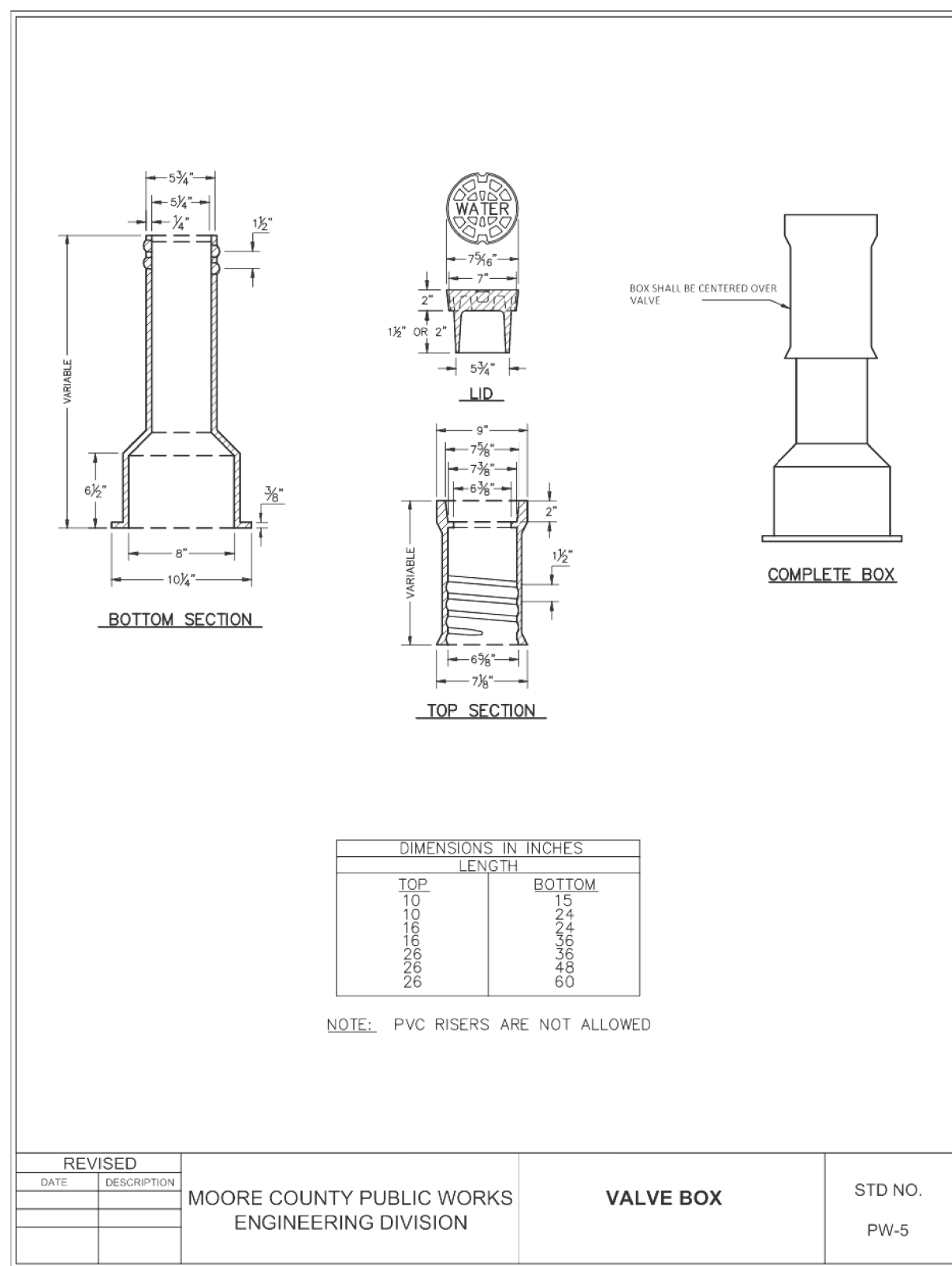


REVISOR	DATE	DESCRIPTION	MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	VALVE AND VALVE BOX INSTALLATION	STD NO. PW-3
---------	------	-------------	---	-------------------------------------	-----------------

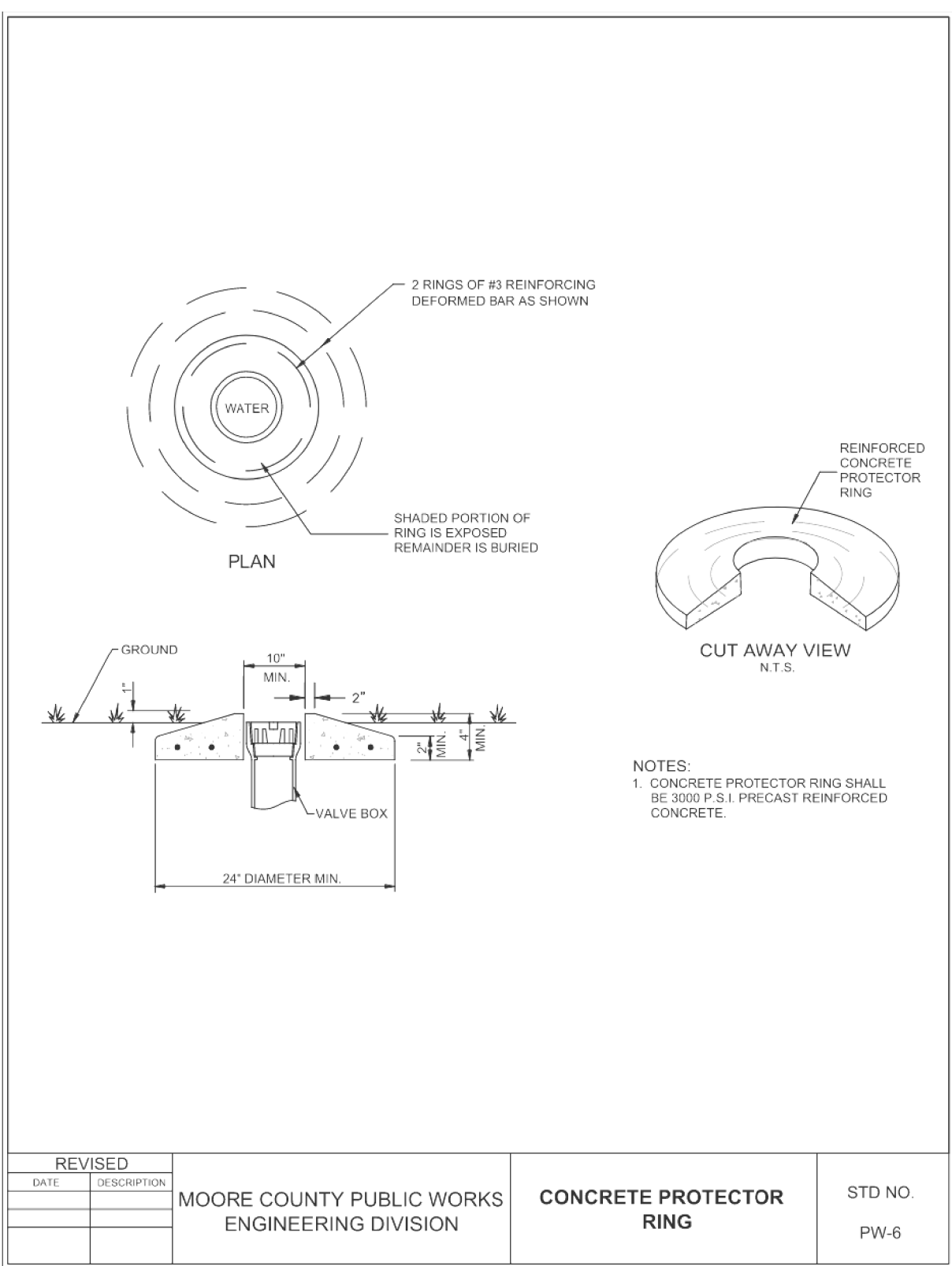
PIPE RESTRAINT CHARTS

Pipe Size (inch)	Horizontal & Vertical Up Bends		Vertical Down Bends	
	Bend Angle	Restraint Req. (feet)	Bend Angle	Restraint Req. (feet)
4"	11.25	2	11.25	4
	22.5	5	22.5	8
	30	6	30	11
	45	10	45	17
	60	14	60	24
6"	90	24	90	41
	11.25	9	11.25	8
	22.5	7	22.5	12
	30	9	30	16
	45	14	45	24
8"	60	18	60	34
	90	33	90	59
	11.25	4	11.25	7
	22.5	9	22.5	15
	30	11	30	20
10"	45	18	45	31
	60	25	60	44
	90	43	90	76
	11.25	5	11.25	9
	22.5	10	22.5	18
12"	30	14	30	25
	45	21	45	38
	60	30	60	53
	90	52	90	92
	11.25	6	11.25	11
22"	22.5	12	22.5	21
	30	16	30	29
	45	25	45	44
	60	35	60	62
	90	60	90	107

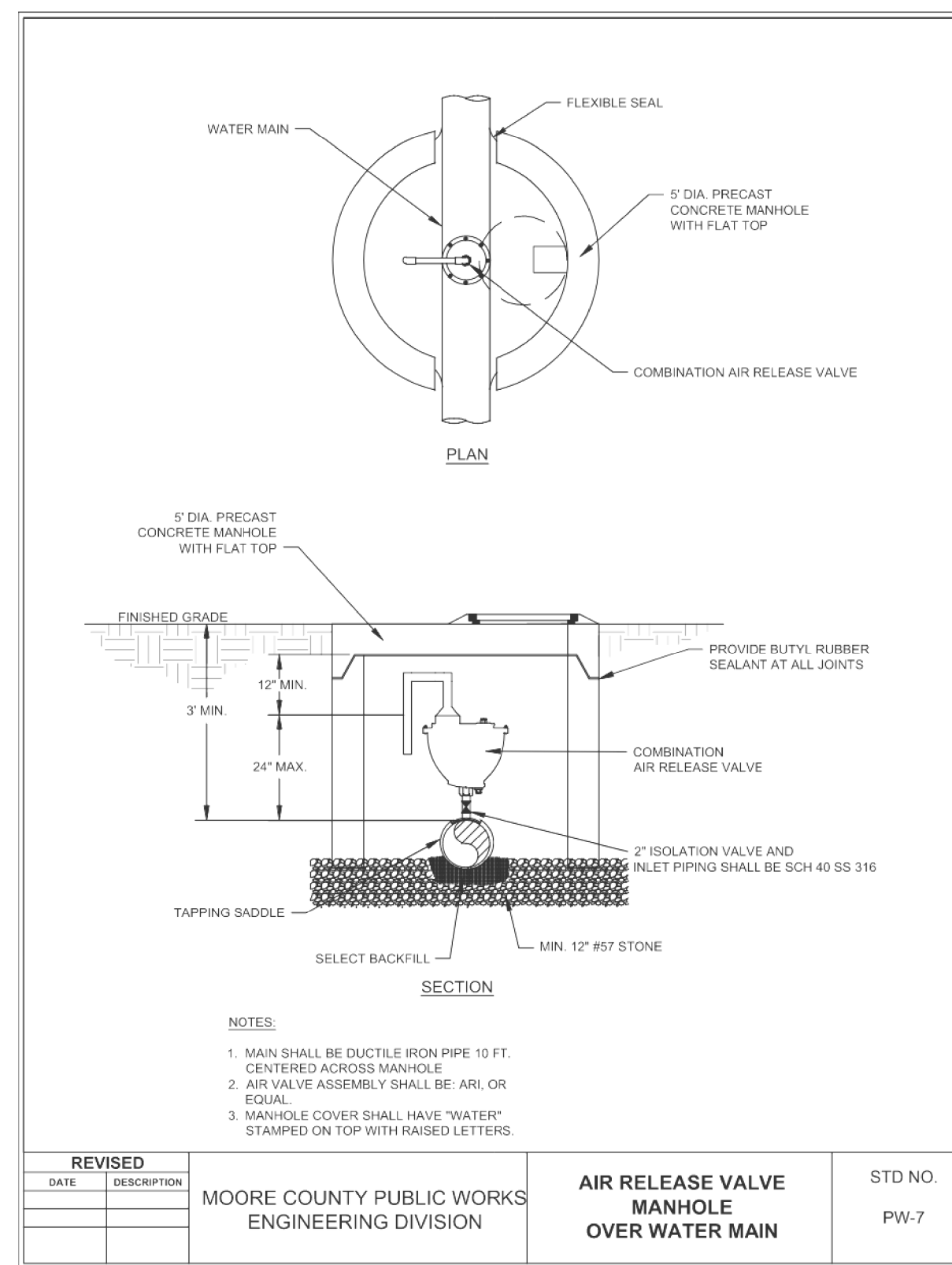
Fitting Type	Size (inch)	Pipeline Restraint Req. (feet)
		Tee
	6	52
	8	79
	10	85
	12	101
Reducer	6x4	30
	8x6	32
	10x4	74
	10x6	58
	10x8	31
	12x4	93
	12x6	78
Cap	12x10	31
	4	41
	6	59
	8	76
	10	92
	12	107



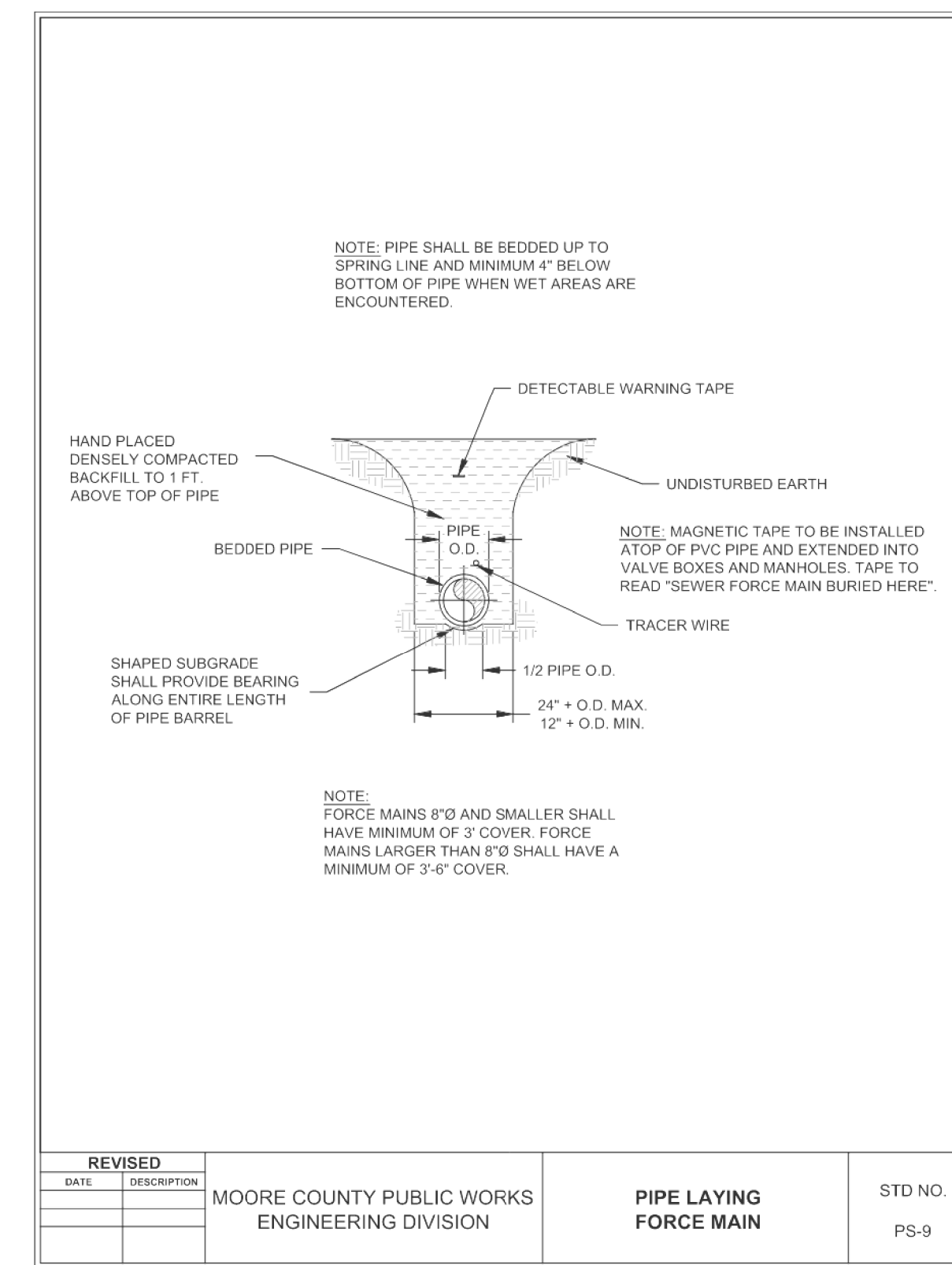
REVISOR	DATE	DESCRIPTION	MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	VALVE BOX	STD NO. PW-5
---------	------	-------------	---	-----------	-----------------



REVISOR	DATE	DESCRIPTION	MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	CONCRETE PROTECTOR RING	STD NO. PW-6
---------	------	-------------	---	-------------------------	-----------------

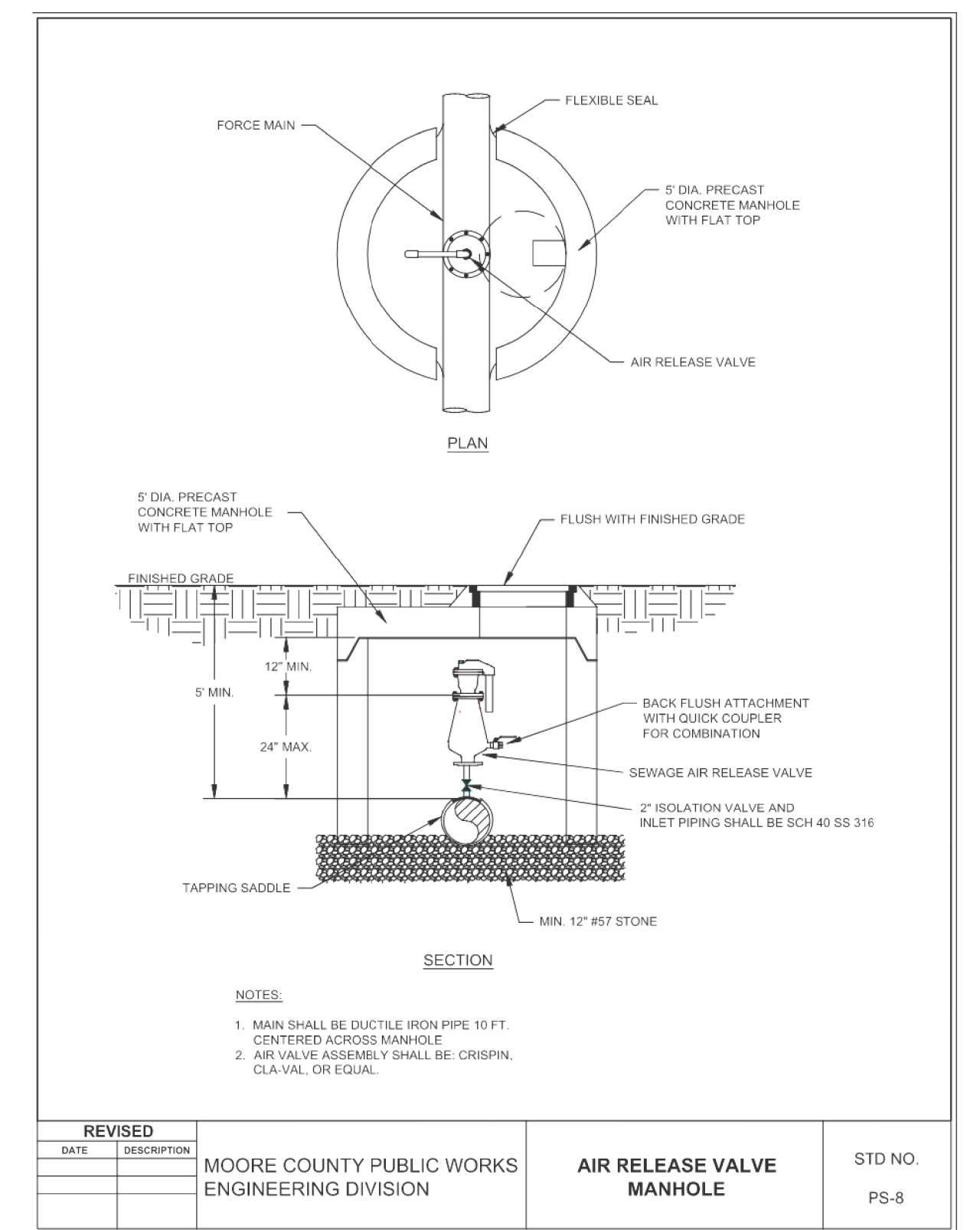
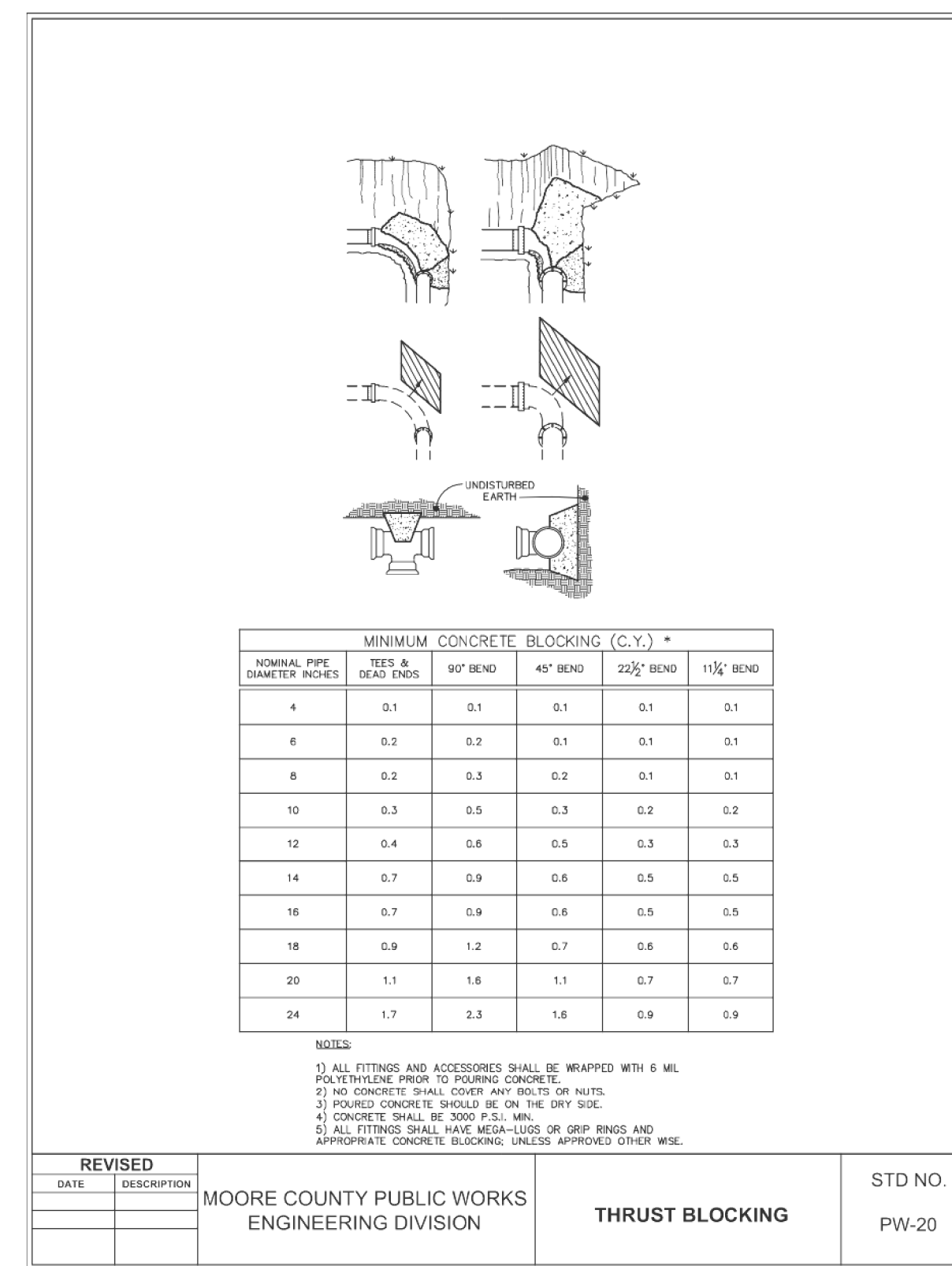
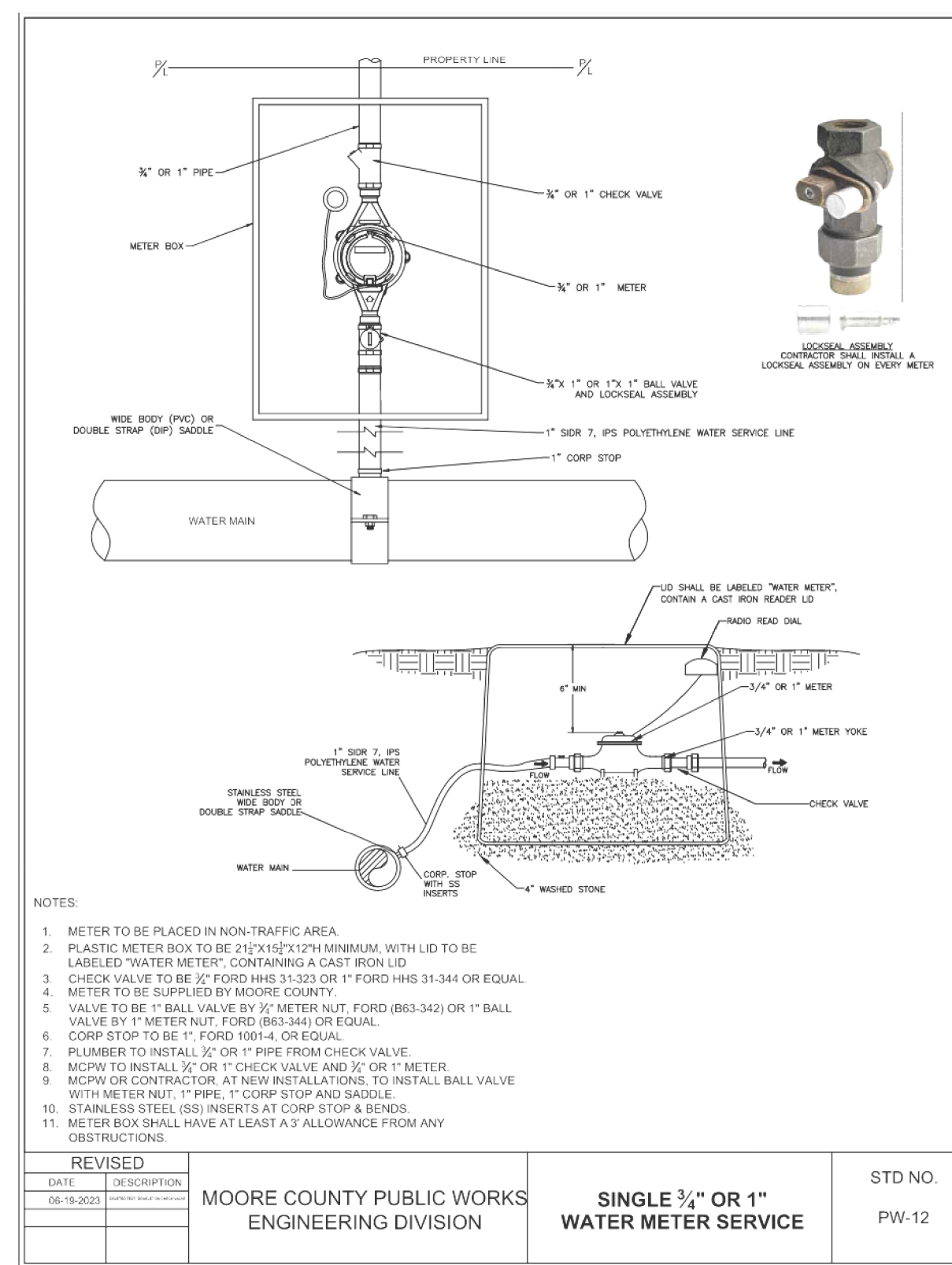
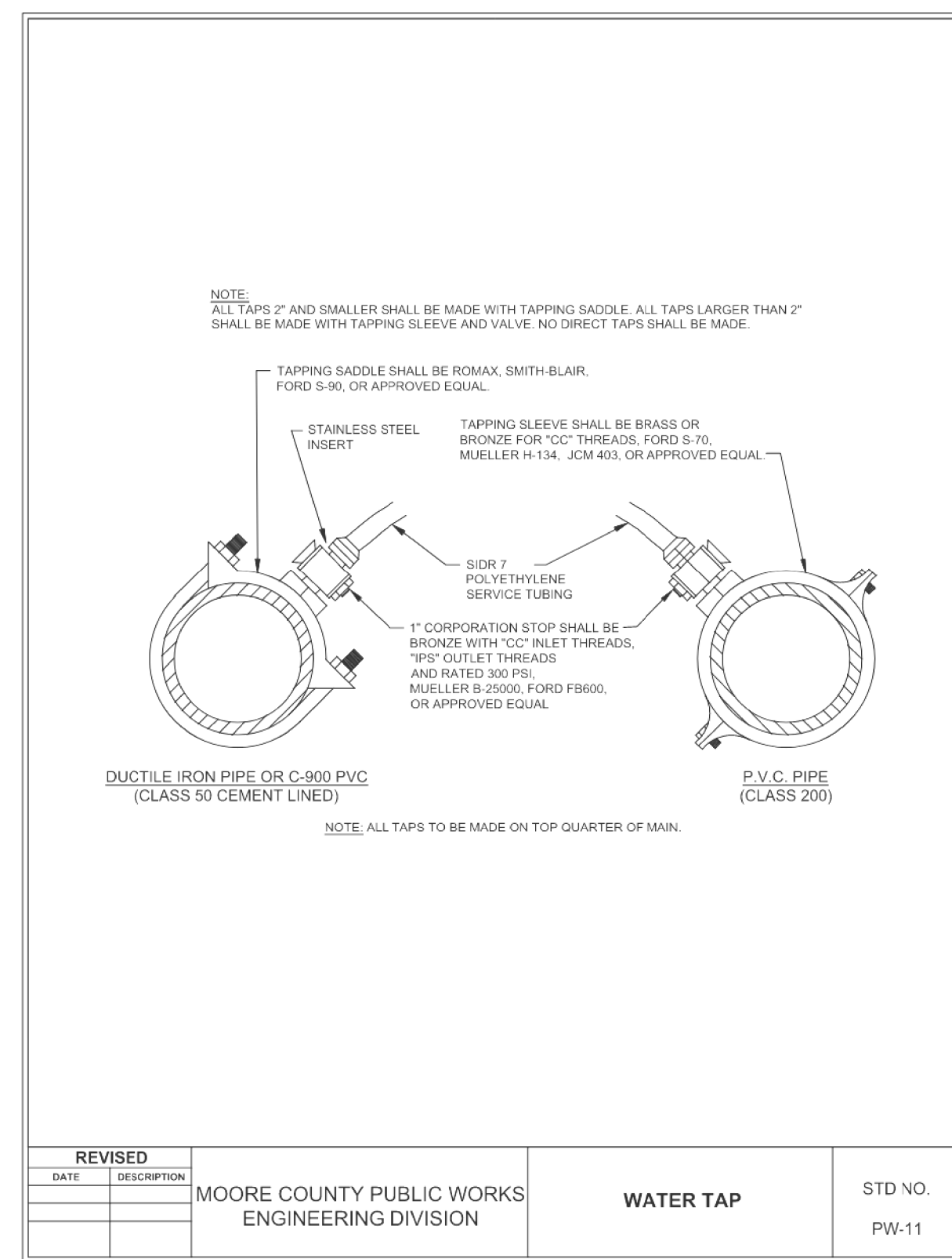
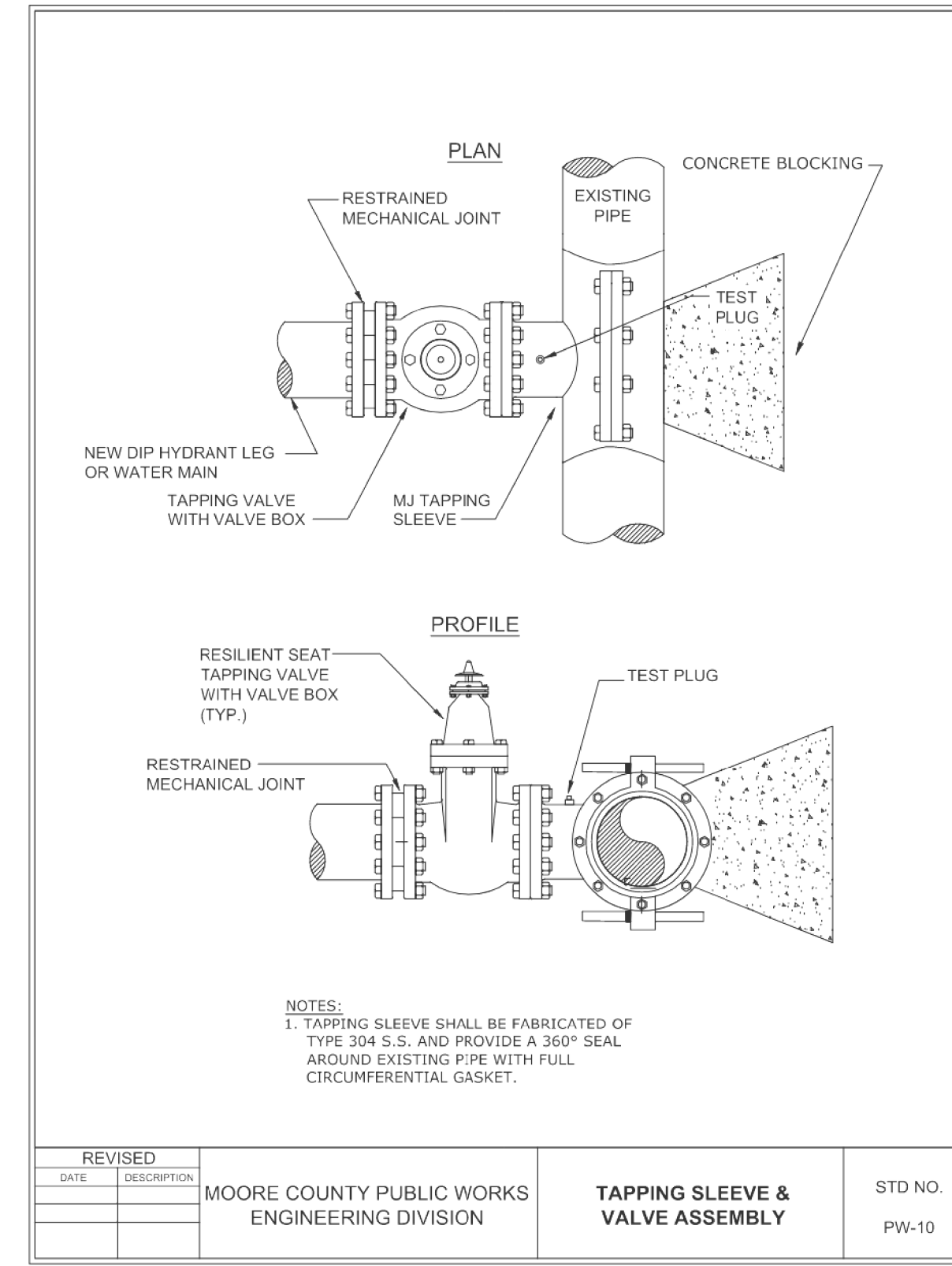
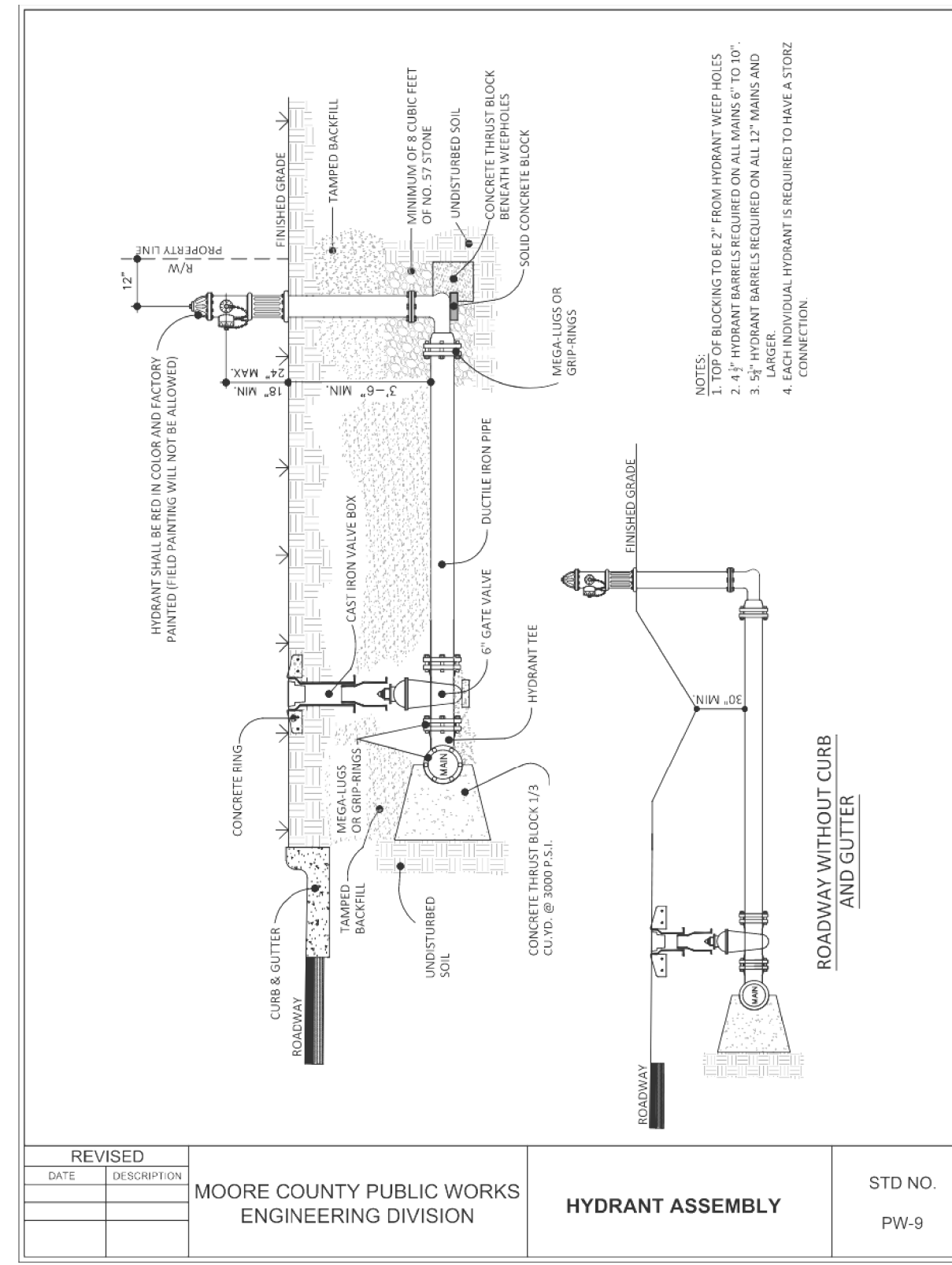
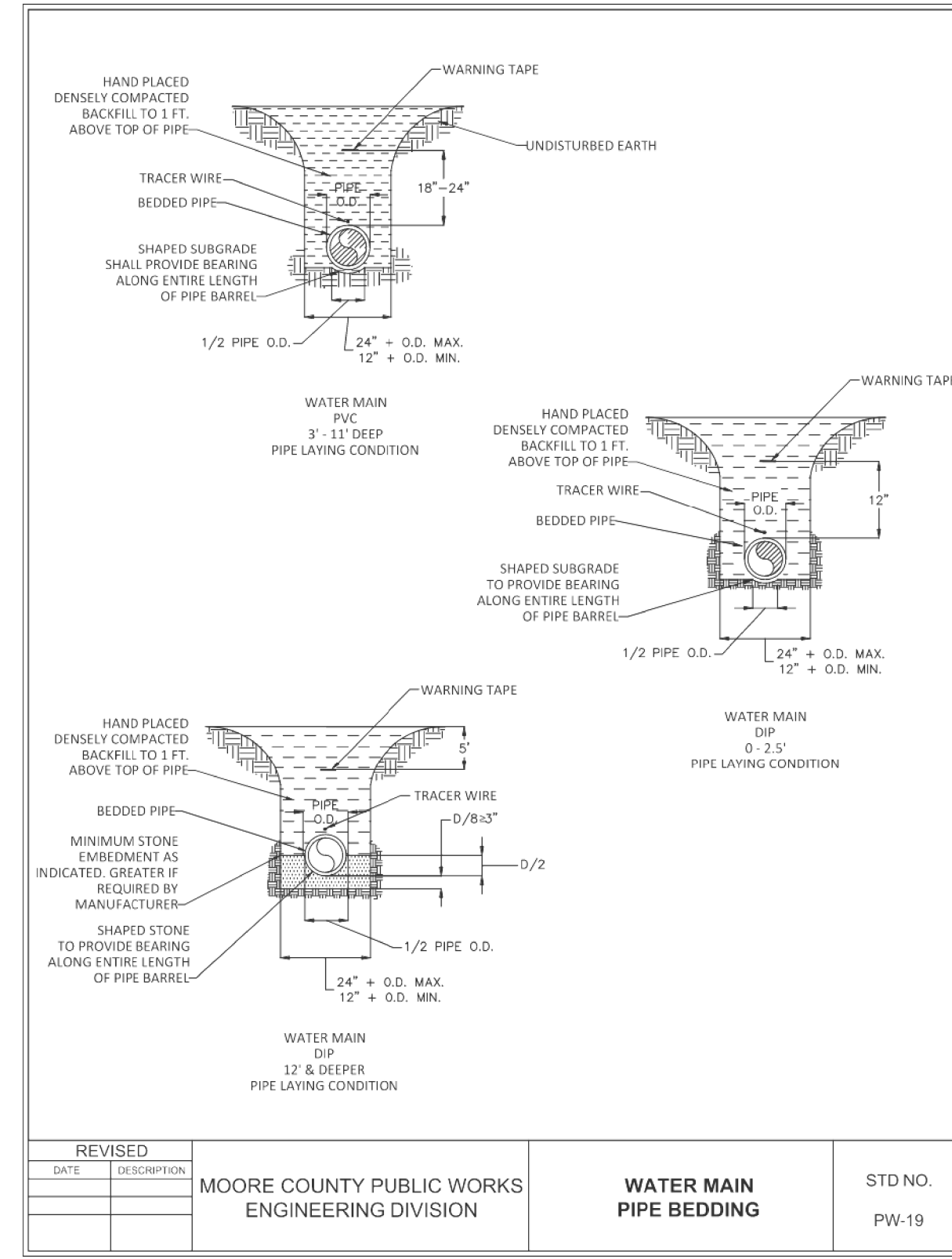


REVISOR	DATE	DESCRIPTION	MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	AIR RELEASE VALVE MANHOLE OVER WATER MAIN	STD NO. PW-7
---------	------	-------------	---	---	-----------------



REVISOR	DATE	DESCRIPTION	MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	PIPE LAYING FORCE MAIN	STD NO. PS-9
---------	------	-------------	---	------------------------	-----------------

UTILITY CONSTRUCTION



5/14/99

8:56:56 AM C:\Program Files\Autodesk\AutoCAD 2000\psh.dgn

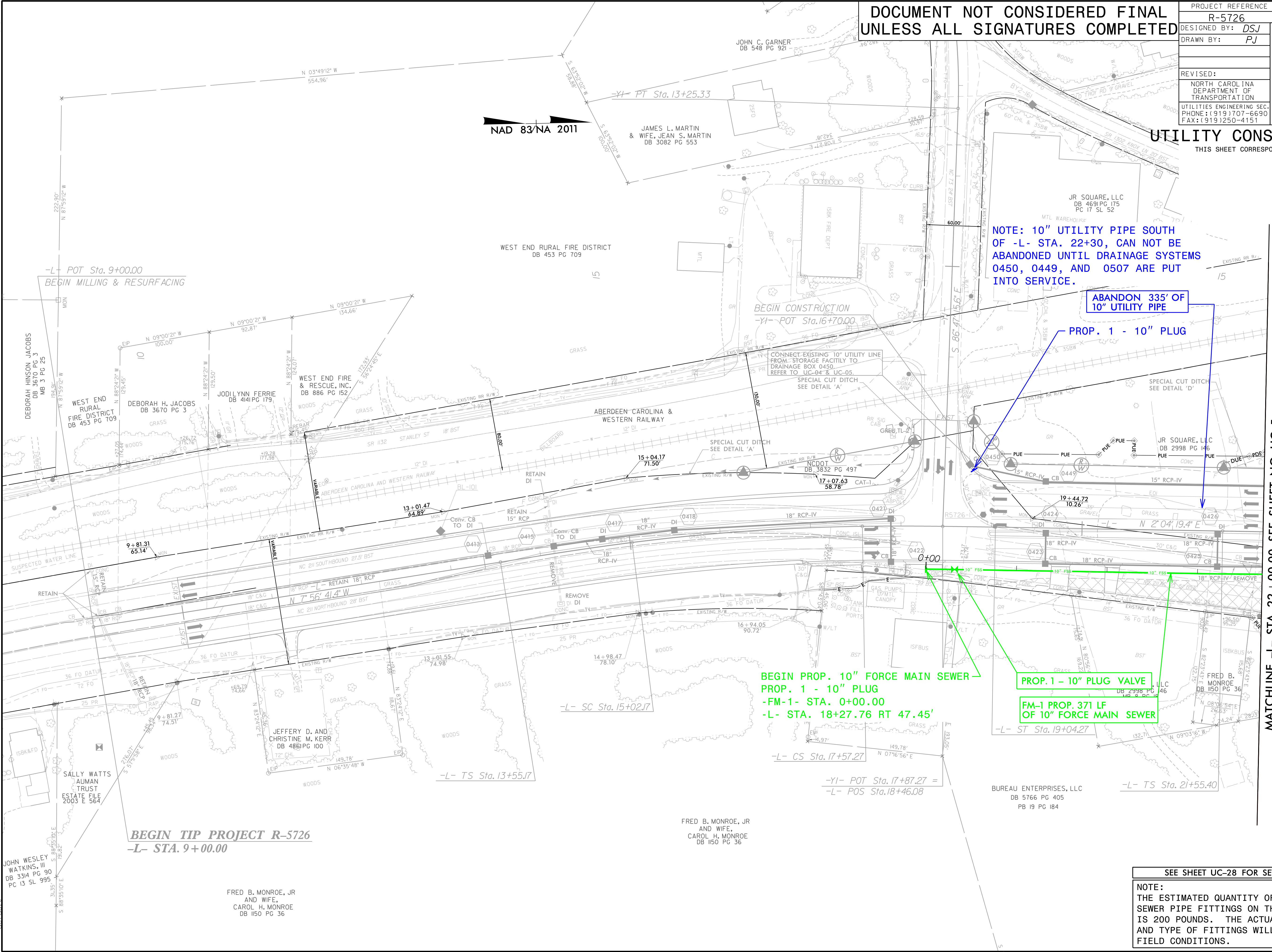
5/14/19
I:\58453 PM
Ases\Engineering\UC\Pro\280_004_r5726-ut_rdy4_UC4_psh.dgn

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	R-5726	SHEET NO.	UC-4
DESIGNED BY:	DSJ		
DRAWN BY:	PJ		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION			
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

THIS SHEET CORRESPONDS TO RDY-4



NOTE: 10" UTILITY PIPE SOUTH OF -L- STA. 22+30, CAN NOT BE ABANDONED UNTIL DRAINAGE SYSTEMS 0450, 0449, AND 0507 ARE PUT INTO SERVICE.

ABANDON 335' OF 10" UTILITY PIPE

PROP. 1 - 10" PLUG

BEGIN PROP. 10" FORCE MAIN SEWER
PROP. 1 - 10" PLUG
-FM-1- STA. 0+00.00
-L- STA. 18+27.76 RT 47.45'

PROP. 1 - 10" PLUG VALVE

FM-1 PROP. 371 LF OF 10" FORCE MAIN SEWER

MATCHLINE -L- STA. 22+00.00 SEE SHEET NO. UC-5

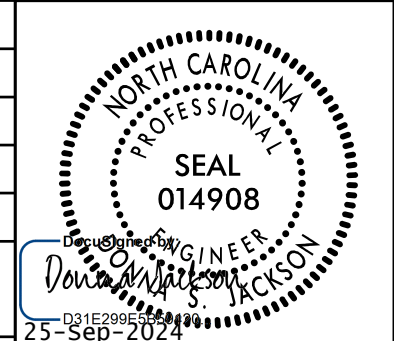
BEGIN TIP PROJECT R-5726
-L- STA. 9+00.00

SEE SHEET UC-28 FOR SEWER PROFILE

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON SEWER PIPE FITTINGS ON THIS PLAN SHEET IS 200 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

5/14/2019

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

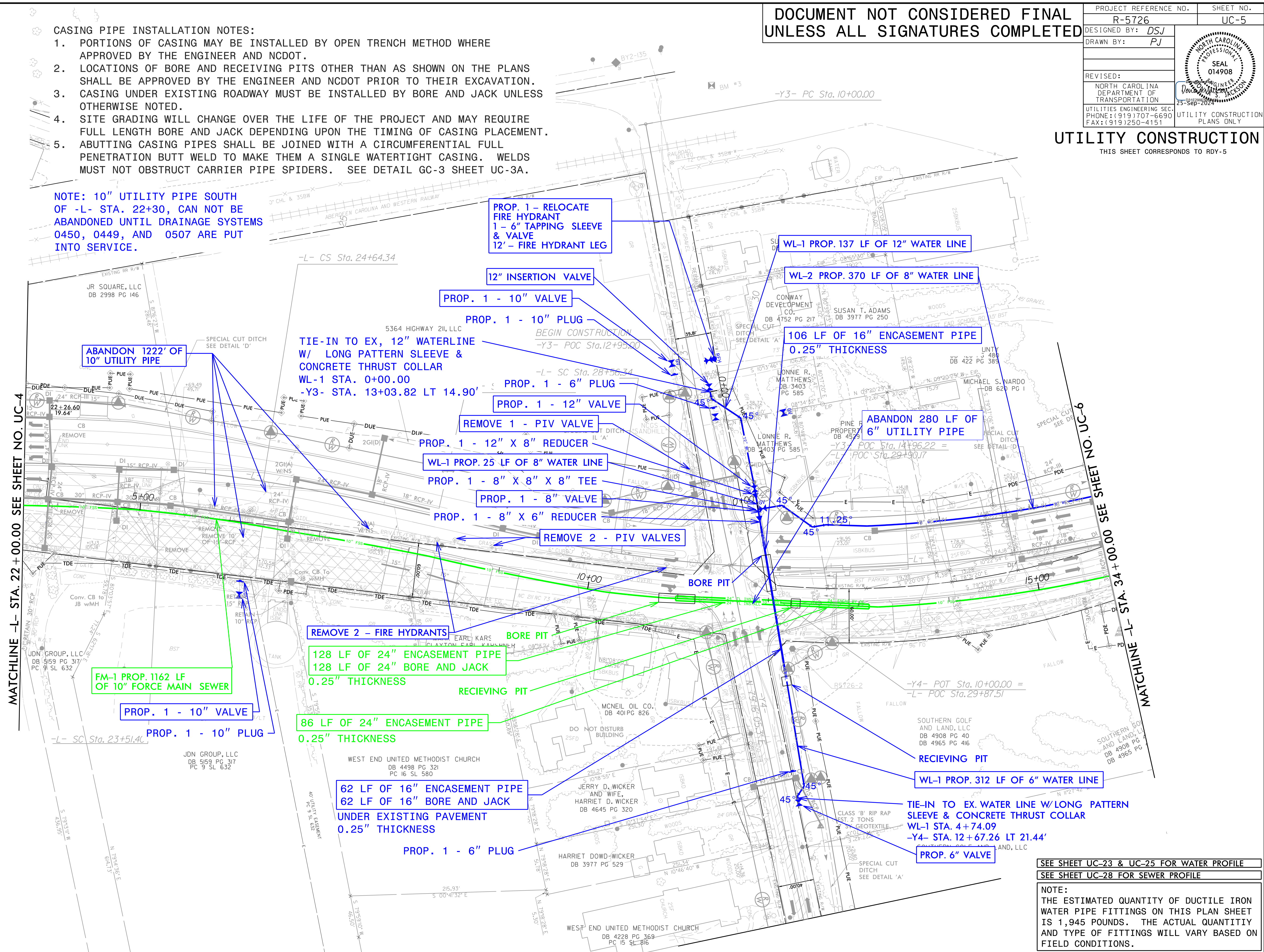
PROJECT REFERENCE NO.	R-5726	SHEET NO.	UC-5
DESIGNED BY:	DSJ		
DRAWN BY:	PJ		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151			

UTILITY CONSTRUCTION
THIS SHEET CORRESPONDS TO RDY-5

CASING PIPE INSTALLATION NOTES:

- PORTIONS OF CASING MAY BE INSTALLED BY OPEN TRENCH METHOD WHERE APPROVED BY THE ENGINEER AND NCDOT.
- LOCATIONS OF BORE AND RECEIVING PITS OTHER THAN AS SHOWN ON THE PLANS SHALL BE APPROVED BY THE ENGINEER AND NCDOT PRIOR TO THEIR EXCAVATION.
- CASING UNDER EXISTING ROADWAY MUST BE INSTALLED BY BORE AND JACK UNLESS OTHERWISE NOTED.
- SITE GRADING WILL CHANGE OVER THE LIFE OF THE PROJECT AND MAY REQUIRE FULL LENGTH BORE AND JACK DEPENDING UPON THE TIMING OF CASING PLACEMENT.
- ABUTTING CASING PIPES SHALL BE JOINED WITH A CIRCUMFERENTIAL FULL PENETRATION BUTT WELD TO MAKE THEM A SINGLE WATERTIGHT CASING. WELDS MUST NOT OBSTRUCT CARRIER PIPE SPIDERS. SEE DETAIL GC-3 SHEET UC-3A.

NOTE: 10" UTILITY PIPE SOUTH OF -L- STA. 22+30, CAN NOT BE ABANDONED UNTIL DRAINAGE SYSTEMS 0450, 0449, AND 0507 ARE PUT INTO SERVICE.



MATCHLINE -L- STA. 22+00.00 SEE SHEET NO. UC-4

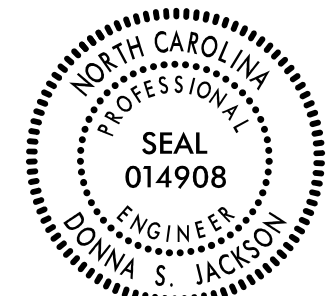
MATCHLINE -L- STA. 34+00.00 SEE SHEET NO. UC-6

SEE SHEET UC-23 & UC-25 FOR WATER PROFILE
SEE SHEET UC-28 FOR SEWER PROFILE

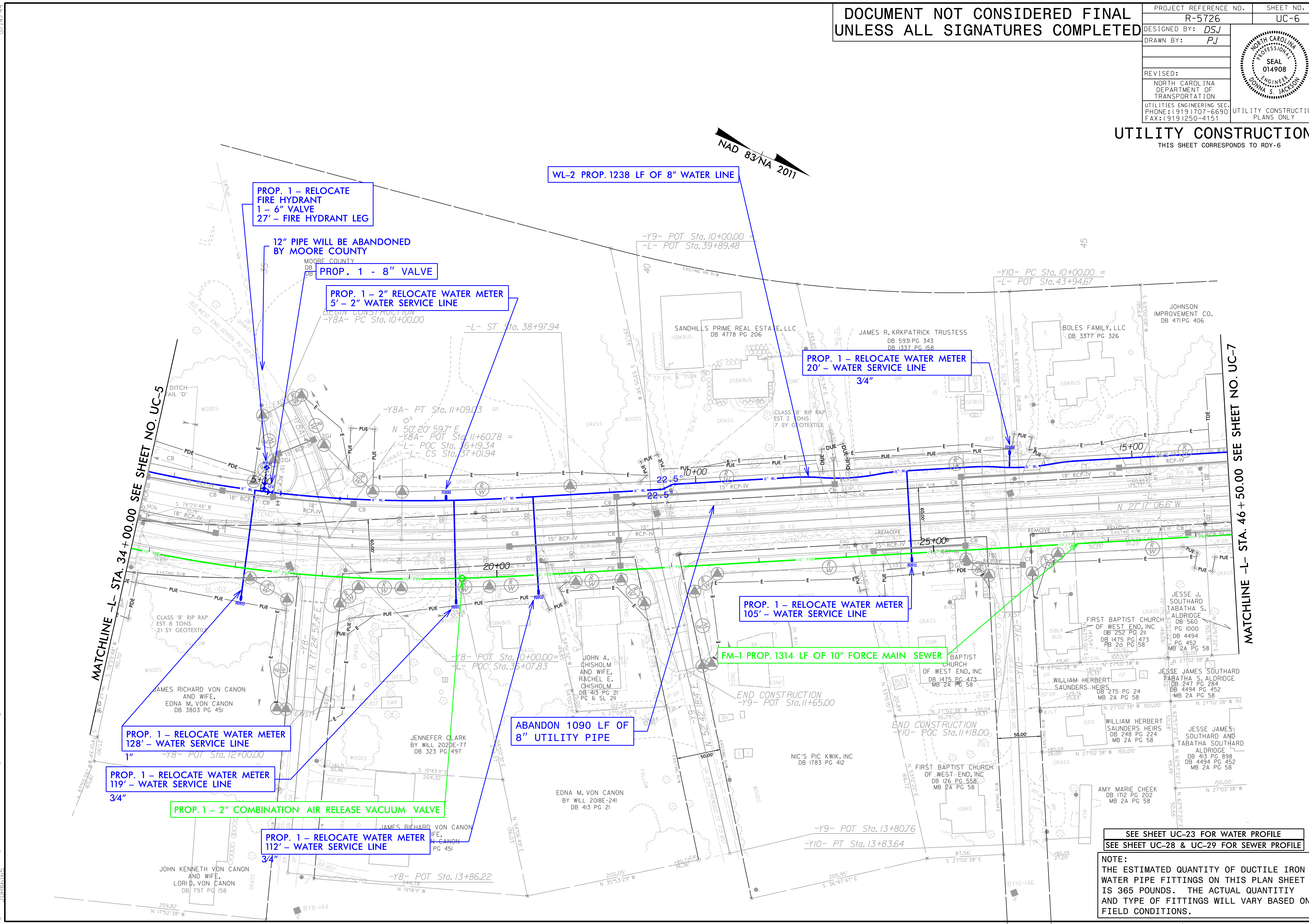
NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 1,945 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

3/14/24 PM
es:\Engineer\rdy5\280_005_rdy5_uc5_pah.dgn

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO. R-5726	SHEET NO. UC-6
DESIGNED BY: DSJ	
DRAWN BY: PJ	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION
THIS SHEET CORRESPONDS TO RDY-6



MATCHLINE -L- STA. 34+00.00 SEE SHEET NO. UC-5

MATCHLINE -L- STA. 46+50.00 SEE SHEET NO. UC-7

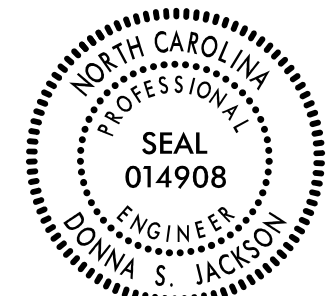
NAD 83 NA 2011

SEE SHEET UC-23 FOR WATER PROFILE
SEE SHEET UC-28 & UC-29 FOR SEWER PROFILE

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 365 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

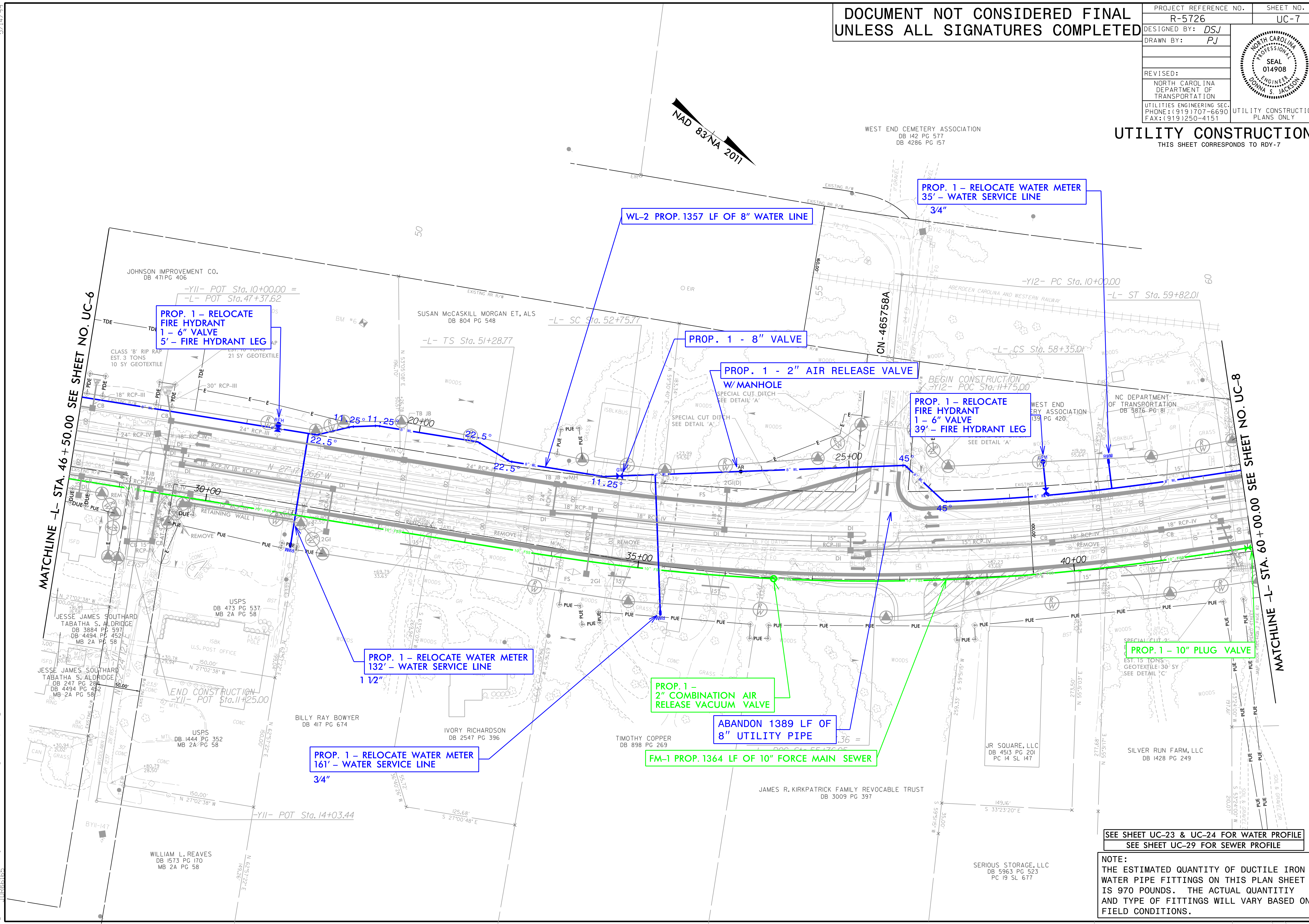
5/14/99
es:\engineer\p\proj\2800_006_r5726_ut_rdy6_UC6_psh.dgn

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	R-5726	SHEET NO.	UC-7
DESIGNED BY:	DSJ		
DRAWN BY:	PJ		
REVISED:		UTILITY CONSTRUCTION PLANS ONLY	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

UTILITY CONSTRUCTION
THIS SHEET CORRESPONDS TO RDY-7

5/14/99
4:54:33 PM
C:\p\proj\2800_007_rdy7_UC7_psh.dgn
es\Engineer\DRS



SEE SHEET UC-23 & UC-24 FOR WATER PROFILE
SEE SHEET UC-29 FOR SEWER PROFILE

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 970 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

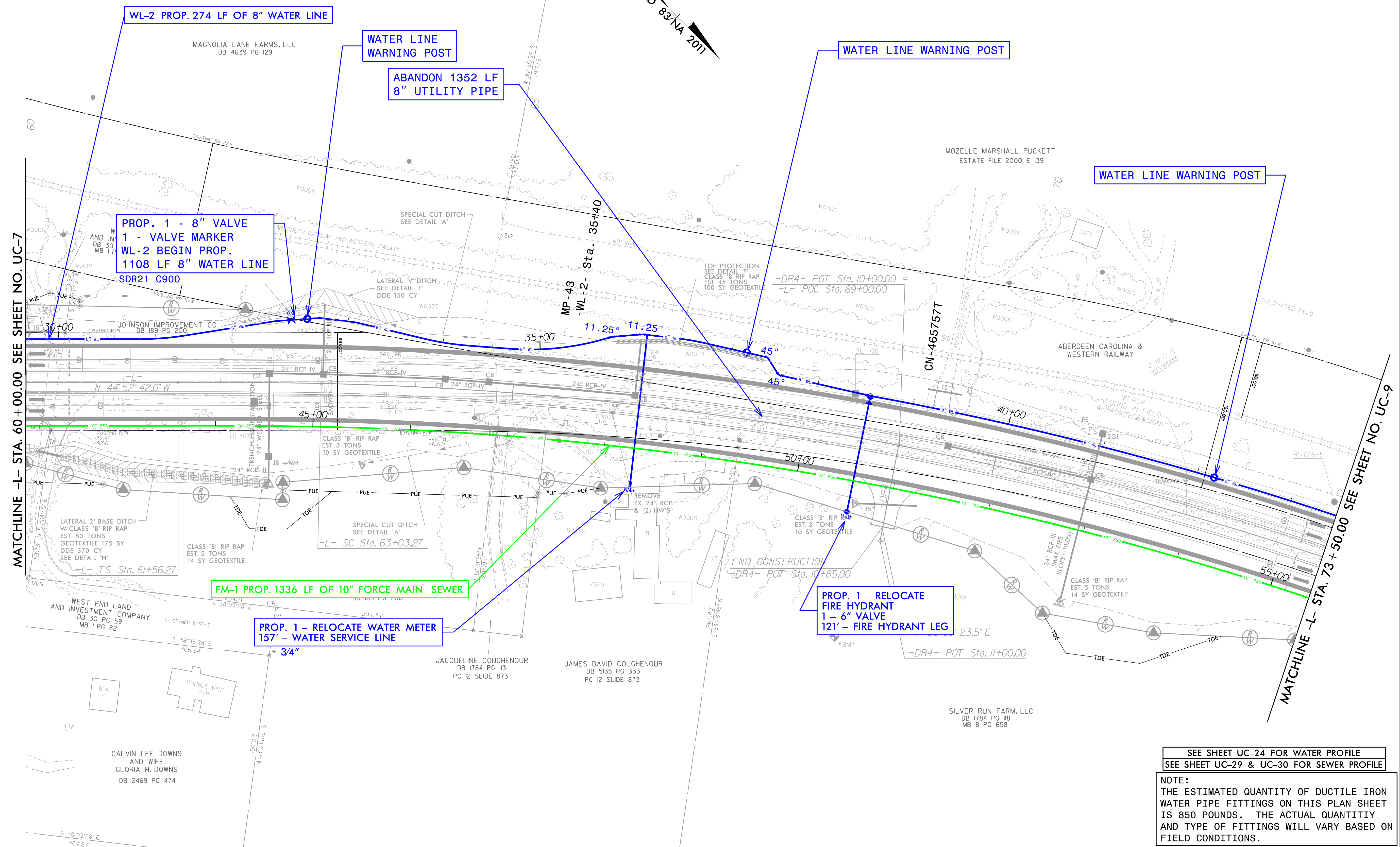
5/14/99

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO. R-5726	SHEET NO. UC-8
DESIGNED BY: DSJ	
DRAWN BY: PJ	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	UTILITY CONSTRUCTION PLANS ONLY
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

UTILITY CONSTRUCTION

THIS SHEET CORRESPONDS TO RDY-8



SEE SHEET UC-24 FOR WATER PROFILE
SEE SHEET UC-29 & UC-30 FOR SEWER PROFILE

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 850 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

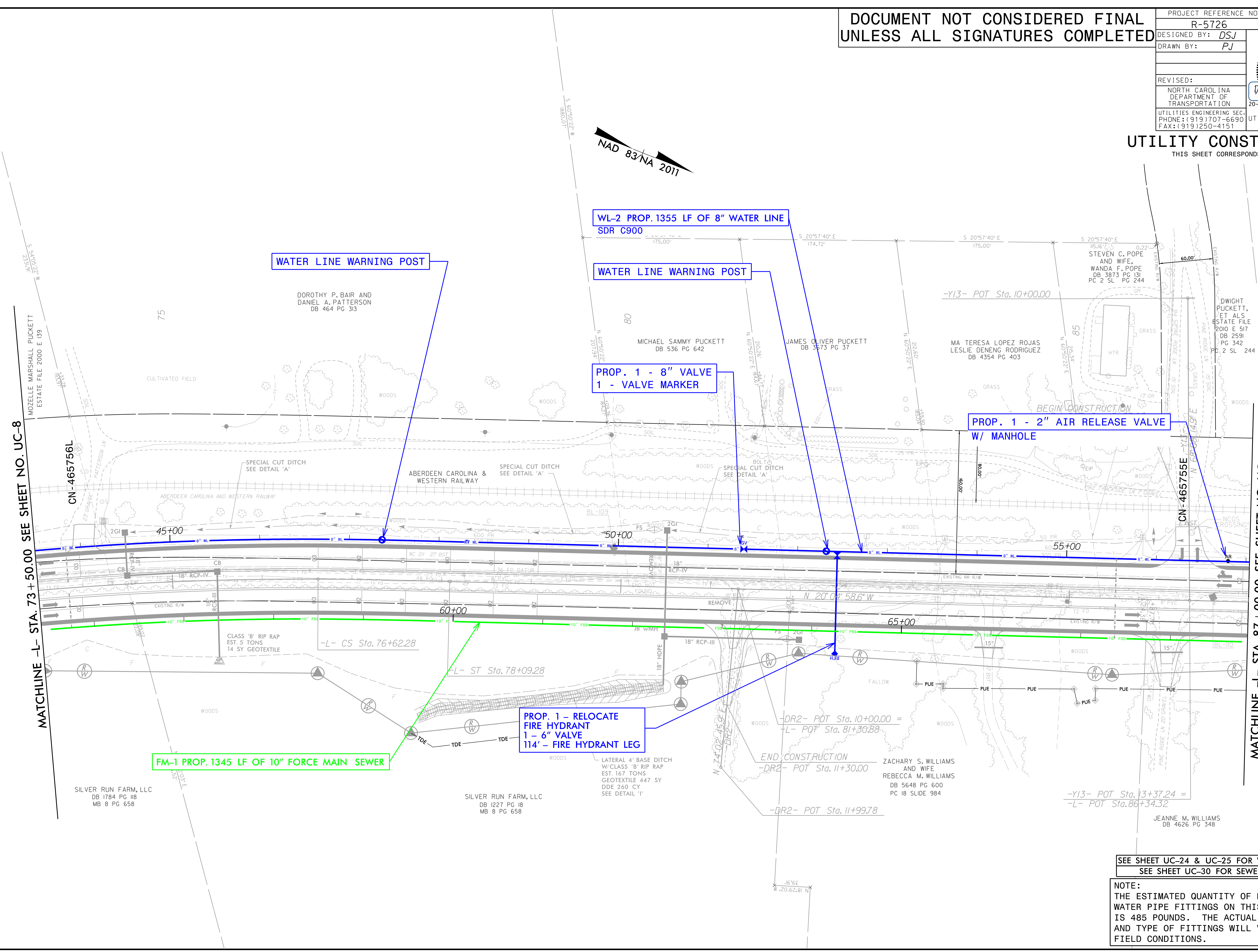
4:28:36 PM C:\p\proj\280_008_r5726_ut_rdy8_UC8_psh.dgn
es\Engineer\dsj

5/14/99

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	R-5726	SHEET NO.	UC-9
DESIGNED BY:	DSJ		
DRAWN BY:	PJ		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151			

UTILITY CONSTRUCTION
THIS SHEET CORRESPONDS TO RDY-9



MATCHLINE -L- STA. 73 + 50.00 SEE SHEET NO. UC-8

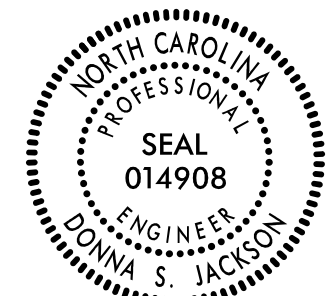
MATCHLINE -L- STA. 87 + 00.00 SEE SHEET NO. UC-10

SEE SHEET UC-24 & UC-25 FOR WATER PROFILE
SEE SHEET UC-30 FOR SEWER PROFILE

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 485 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

4:29:12 PM
C:\p\proj\2800_009_rdy9_uc9_psh.dgn
D:\Projects\2800_009_rdy9_uc9_psh.dgn

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

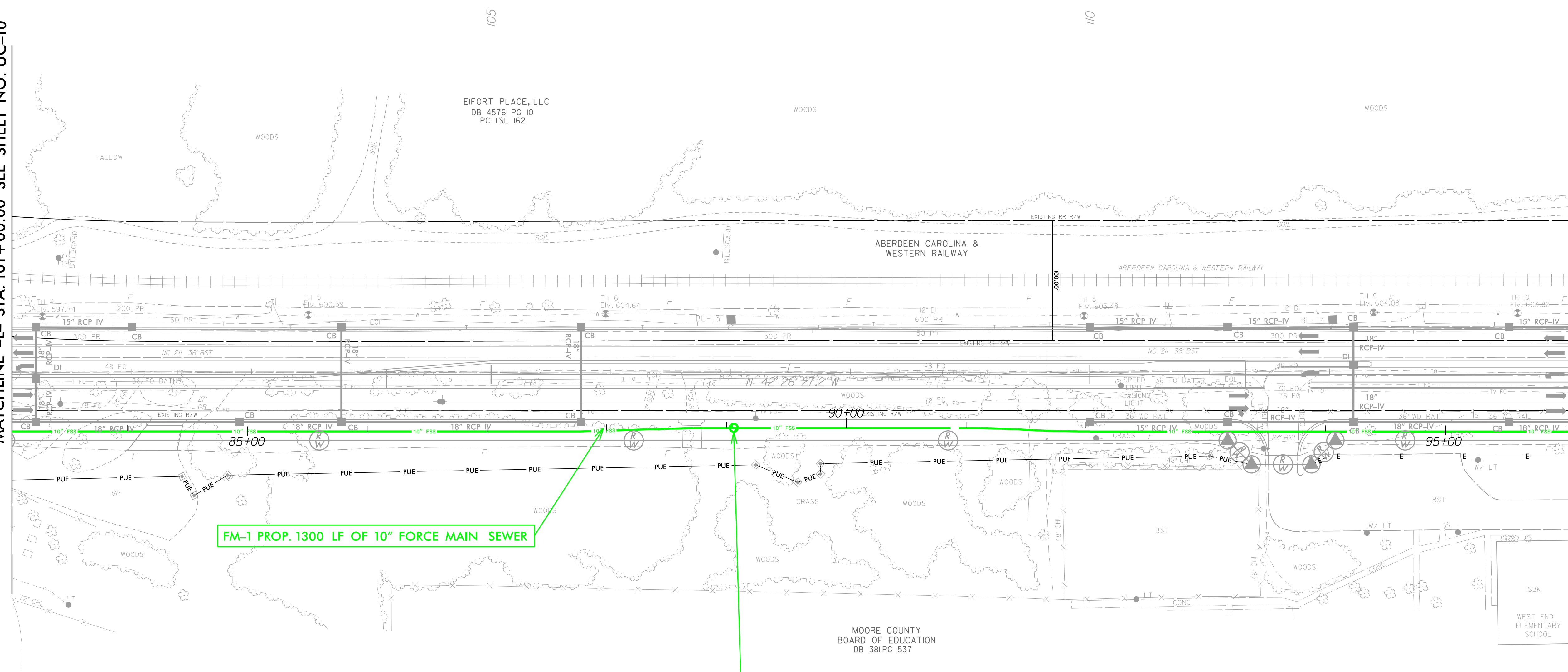
PROJECT REFERENCE NO.	R-5726	SHEET NO.	UC-11
DESIGNED BY:	DSJ		
DRAWN BY:	PJ		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151			

UTILITY CONSTRUCTION
THIS SHEET CORRESPONDS TO RDY-11



MATCHLINE -L- STA. 101+00.00 SEE SHEET NO. UC-10

MATCHLINE -L- STA. 114+00.00 SEE SHEET NO. UC-12



FM-1 PROP. 1300 LF OF 10" FORCE MAIN SEWER

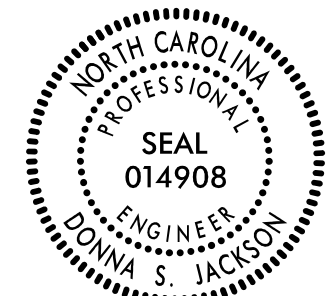
PROP. 1 - 2" COMBINATION AIR RELEASE VACUUM VALVE

SEE SHEET UC-31 FOR SEWER PROFILE

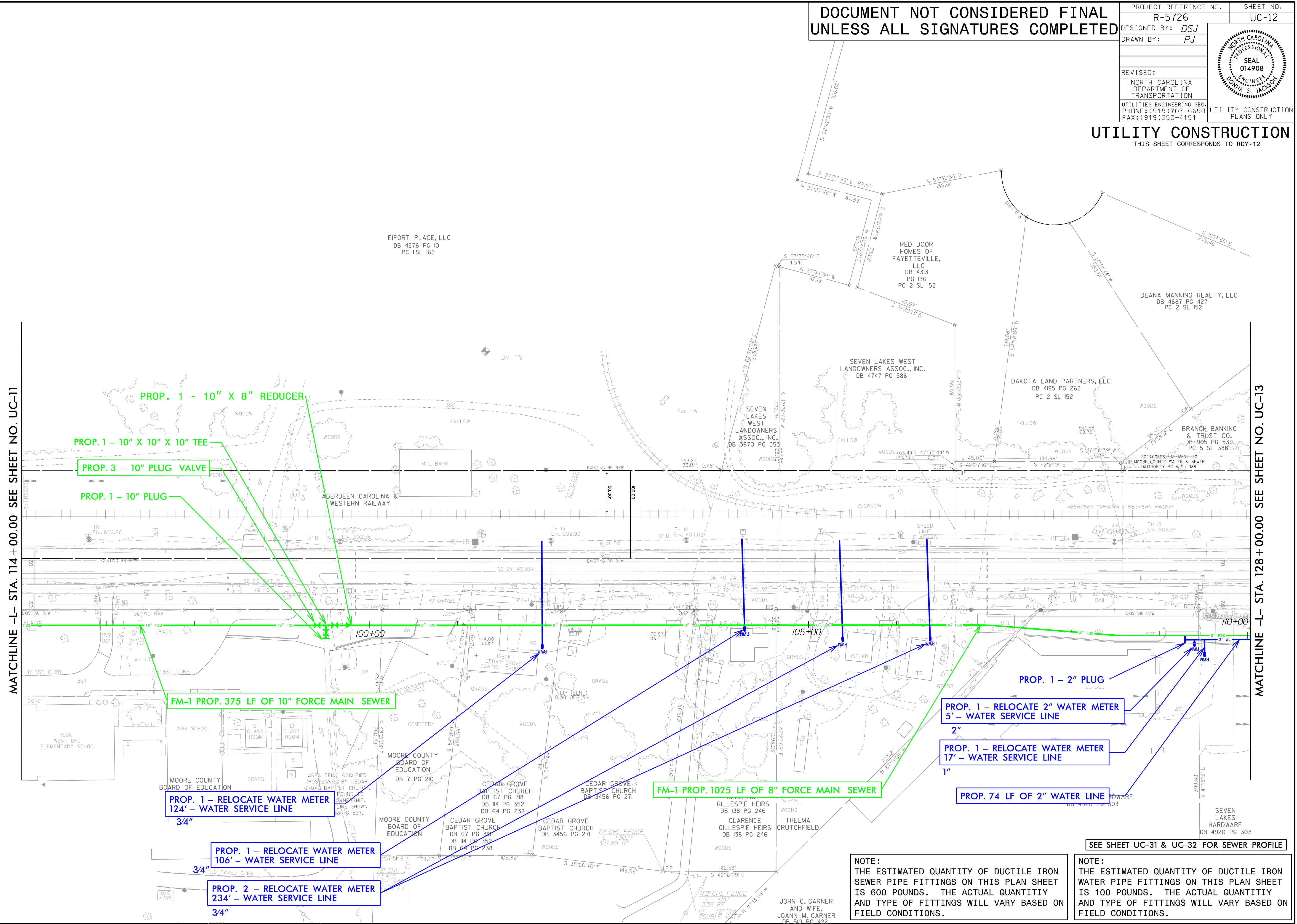
5/14/99

\\s\Engineering\Projects\2800_010_r-5726-ut_rdy\10_UC11_psh.dgn

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	R-5726	SHEET NO.	UC-12
DESIGNED BY:	DSJ		
DRAWN BY:	PJ		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151			

UTILITY CONSTRUCTION
THIS SHEET CORRESPONDS TO R0Y-12



MATCHLINE -L- STA. 114 + 00.00 SEE SHEET NO. UC-11

MATCHLINE -L- STA. 128 + 00.00 SEE SHEET NO. UC-13

PROP. 1 - 10" X 8" REDUCER

PROP. 1 - 10" X 10" X 10" TEE

PROP. 3 - 10" PLUG VALVE

PROP. 1 - 10" PLUG

FM-1 PROP. 375 LF OF 10" FORCE MAIN SEWER

FM-1 PROP. 1025 LF OF 8" FORCE MAIN SEWER

PROP. 1 - RELOCATE WATER METER
124' - WATER SERVICE LINE

PROP. 1 - RELOCATE WATER METER
106' - WATER SERVICE LINE

PROP. 2 - RELOCATE WATER METER
234' - WATER SERVICE LINE

PROP. 1 - 2" PLUG

PROP. 1 - RELOCATE 2" WATER METER
5' - WATER SERVICE LINE

PROP. 1 - RELOCATE WATER METER
17' - WATER SERVICE LINE

PROP. 74 LF OF 2" WATER LINE

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON
SEWER PIPE FITTINGS ON THIS PLAN SHEET
IS 600 POUNDS. THE ACTUAL QUANTITY
AND TYPE OF FITTINGS WILL VARY BASED ON
FIELD CONDITIONS.

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON
WATER PIPE FITTINGS ON THIS PLAN SHEET
IS 100 POUNDS. THE ACTUAL QUANTITY
AND TYPE OF FITTINGS WILL VARY BASED ON
FIELD CONDITIONS.

SEE SHEET UC-31 & UC-32 FOR SEWER PROFILE

JOHN C. GARNER
AND WIFE,
JOANN M. GARNER
DB 510 PG 422

5/14/99
2:\c\56\p\proj\280.012_r5726_ut.rdy\2_UC12_psh.dgn

5/14/99
4:54:37 PM
C:\Users\jmc\OneDrive\Documents\280.013_r-5726-ut-rdyl3_UC13_psh.dgn

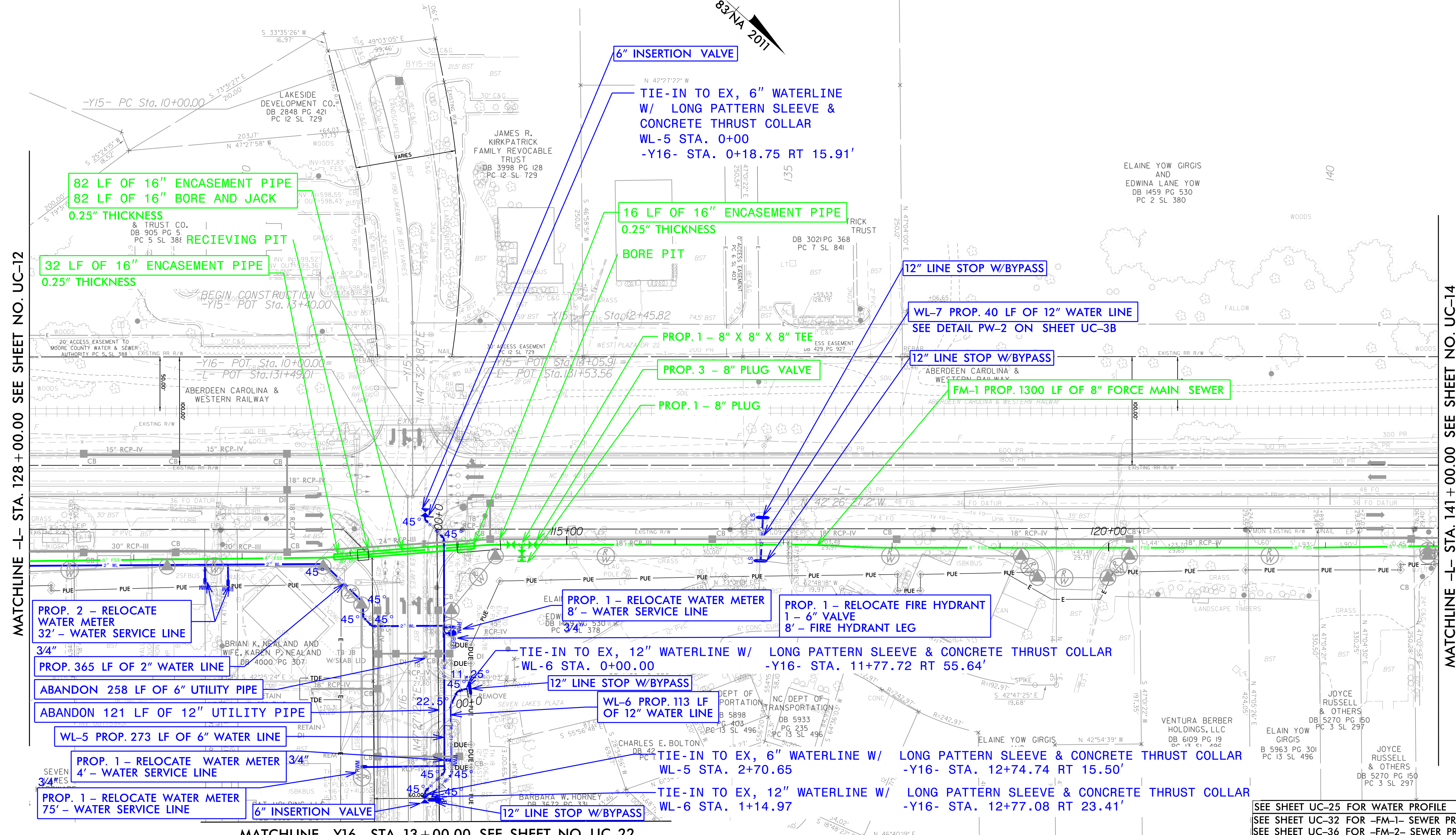
CASING PIPE INSTALLATION NOTES:

1. PORTIONS OF CASING MAY BE INSTALLED BY OPEN TRENCH METHOD WHERE APPROVED BY THE ENGINEER AND NCDOT.
2. LOCATIONS OF BORE AND RECEIVING PITS OTHER THAN AS SHOWN ON THE PLANS SHALL BE APPROVED BY THE ENGINEER AND NCDOT PRIOR TO THEIR EXCAVATION.
3. CASING UNDER EXISTING ROADWAY MUST BE INSTALLED BY BORE AND JACK UNLESS OTHERWISE NOTED.
4. SITE GRADING WILL CHANGE OVER THE LIFE OF THE PROJECT AND MAY REQUIRE FULL LENGTH BORE AND JACK DEPENDING UPON THE TIMING OF CASING PLACEMENT.
5. ABUTTING CASING PIPES SHALL BE JOINED WITH A CIRCUMFERENTIAL FULL PENETRATION BUTT WELD TO MAKE THEM A SINGLE WATERTIGHT CASING. WELDS MUST NOT OBSTRUCT CARRIER PIPE SPIDERS. SEE DETAIL GC-3 SHEET UC-3A.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO. R-5726	SHEET NO. UC-13
DESIGNED BY: DSJ	
DRAWN BY: PJ	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION
THIS SHEET CORRESPONDS TO RDY-13



MATCHLINE -L- STA. 128 + 00.00 SEE SHEET NO. UC-12

MATCHLINE -L- STA. 141 + 00.00 SEE SHEET NO. UC-14


MATCHLINE -Y16- STA. 13 + 00.00 SEE SHEET NO. UC-22

SEE SHEET UC-25 FOR WATER PROFILE
 SEE SHEET UC-32 FOR -FM-1- SEWER PROFILE
 SEE SHEET UC-36 FOR -FM-2- SEWER PROFILE

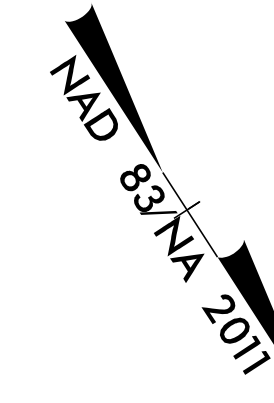
NOTE:
 THE ESTIMATED QUANTITY OF DUCTILE IRON SEWER PIPE FITTINGS ON THIS PLAN SHEET IS 600 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

NOTE:
 THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 3575 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

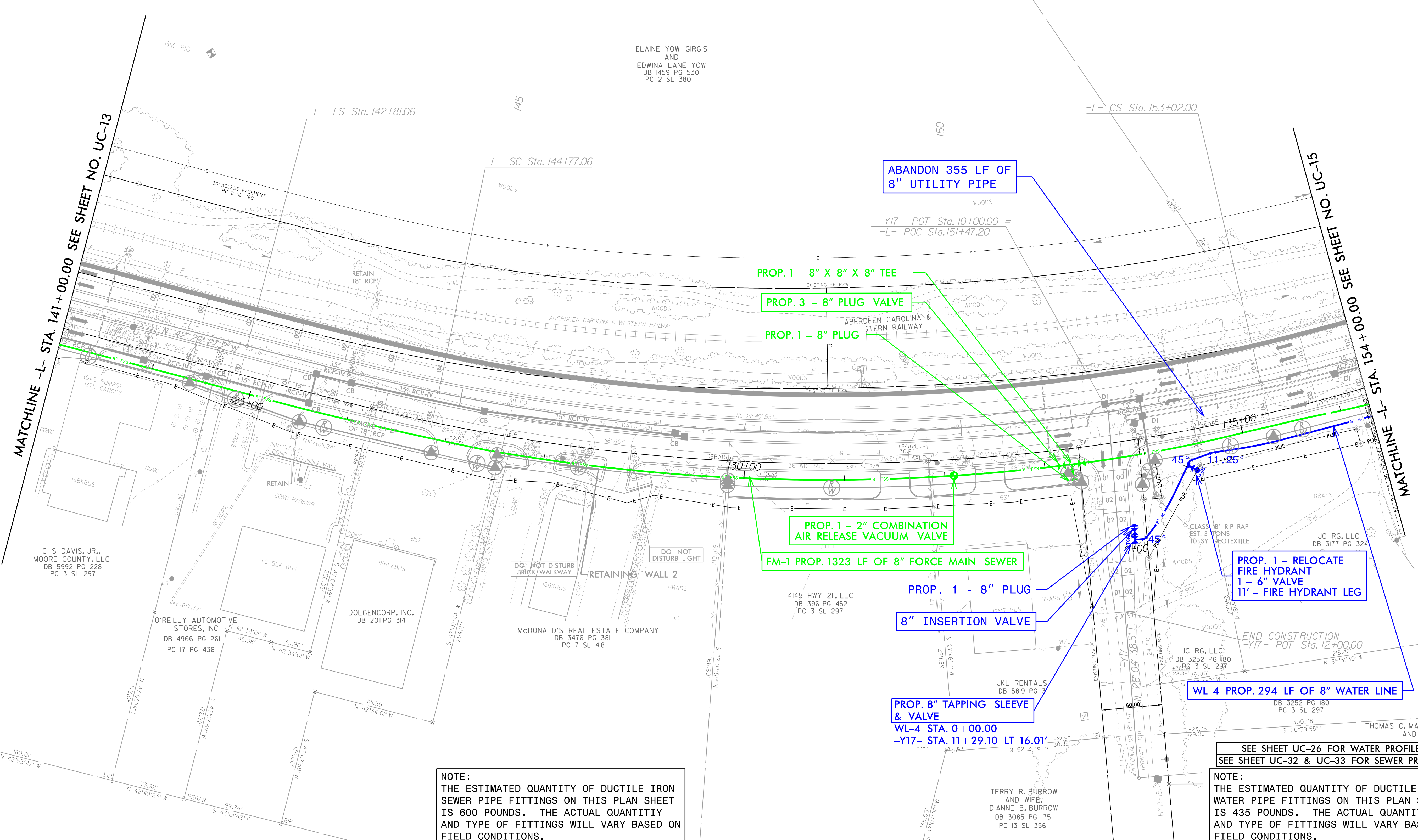
PROJECT REFERENCE NO.	R-5726	SHEET NO.	UC-14
DESIGNED BY:	DSJ		
DRAWN BY:	PJ		
REVISED:		NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION
THIS SHEET CORRESPONDS TO RDY-14



ELAINE AND EDWINA PROPERTIES
DB 3000 PG 487

ELAINE YOW GIRGIS
AND
EDWINA LANE YOW
DB 1459 PG 530
PC 2 SL 380



MATCHLINE -L- STA. 141+00.00 SEE SHEET NO. UC-13

MATCHLINE -L- STA. 154+00.00 SEE SHEET NO. UC-15

ABANDON 355 LF OF
8" UTILITY PIPE

PROP. 1 - 8" X 8" X 8" TEE

PROP. 3 - 8" PLUG VALVE

PROP. 1 - 8" PLUG

PROP. 1 - 2" COMBINATION
AIR RELEASE VACUUM VALVE

FM-1 PROP. 1323 LF OF 8" FORCE MAIN SEWER

PROP. 1 - 8" PLUG

8" INSERTION VALVE

PROP. 8" TAPPING SLEEVE
& VALVE

WL-4 STA. 0+00.00
-Y17- STA. 11+29.10 LT 16.01'

PROP. 1 - RELOCATE
FIRE HYDRANT
1- 6" VALVE
11' - FIRE HYDRANT LEG

WL-4 PROP. 294 LF OF 8" WATER LINE

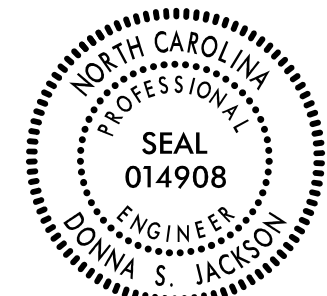
NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON
SEWER PIPE FITTINGS ON THIS PLAN SHEET
IS 600 POUNDS. THE ACTUAL QUANTITY
AND TYPE OF FITTINGS WILL VARY BASED ON
FIELD CONDITIONS.

SEE SHEET UC-26 FOR WATER PROFILE
SEE SHEET UC-32 & UC-33 FOR SEWER PROFILE

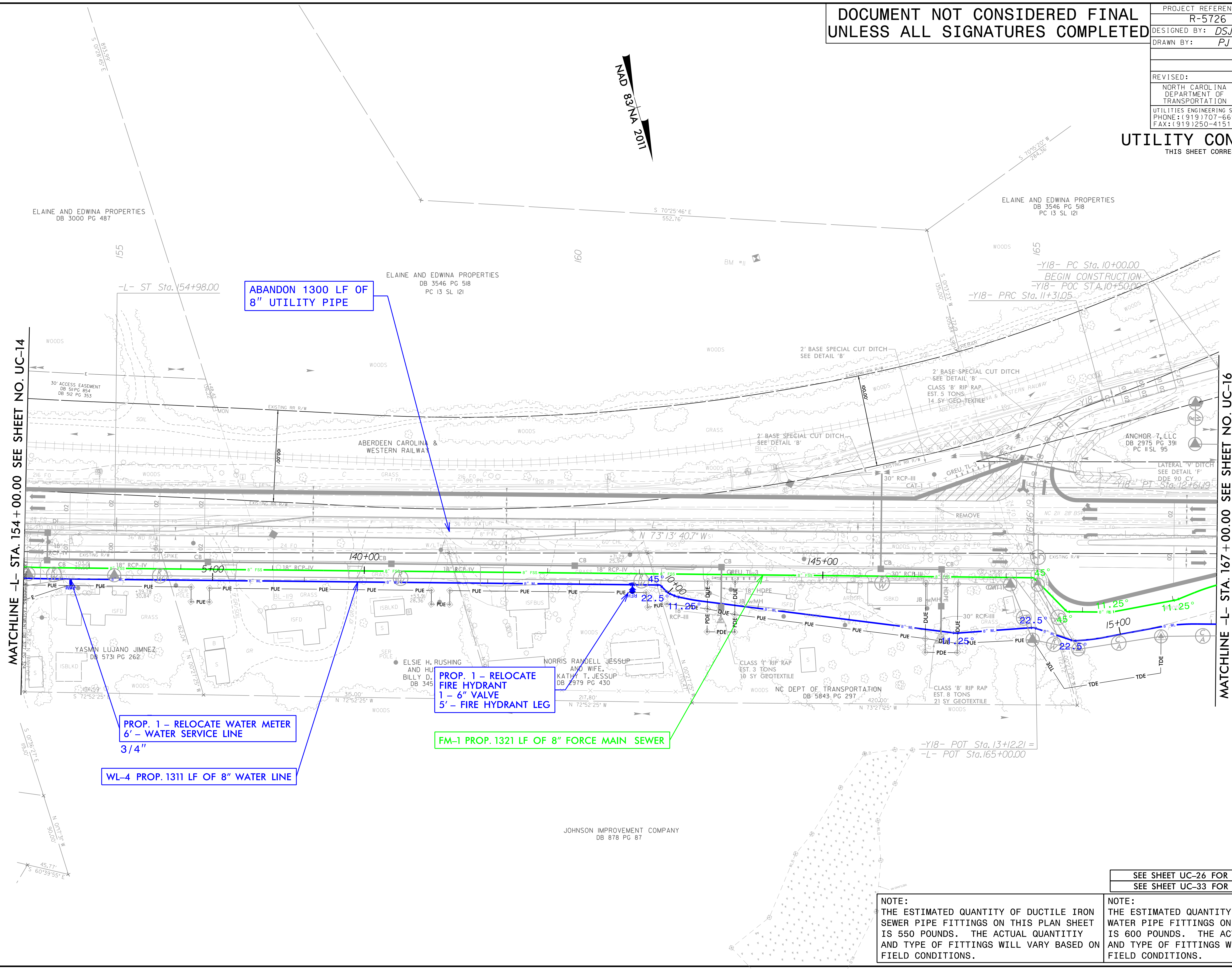
NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON
WATER PIPE FITTINGS ON THIS PLAN SHEET
IS 435 POUNDS. THE ACTUAL QUANTITY
AND TYPE OF FITTINGS WILL VARY BASED ON
FIELD CONDITIONS.

5/14/99
4:54:36 PM
C:\Users\pjohnson\Documents\280.014_5726.ut.rdyl4_UC14_psh.dgn

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO. R-5726	SHEET NO. UC-15
DESIGNED BY: DSJ	
DRAWN BY: PJ	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION
THIS SHEET CORRESPONDS TO R0Y-15



ABANDON 1300 LF OF
8" UTILITY PIPE

PROP. 1 - RELOCATE
FIRE HYDRANT
1 - 6" VALVE
5' - FIRE HYDRANT LEG

PROP. 1 - RELOCATE WATER METER
6" - WATER SERVICE LINE
3/4"

WL-4 PROP. 1311 LF OF 8" WATER LINE

FM-1 PROP. 1321 LF OF 8" FORCE MAIN SEWER

SEE SHEET UC-26 FOR WATER PROFILE
SEE SHEET UC-33 FOR SEWER PROFILE

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON SEWER PIPE FITTINGS ON THIS PLAN SHEET IS 550 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

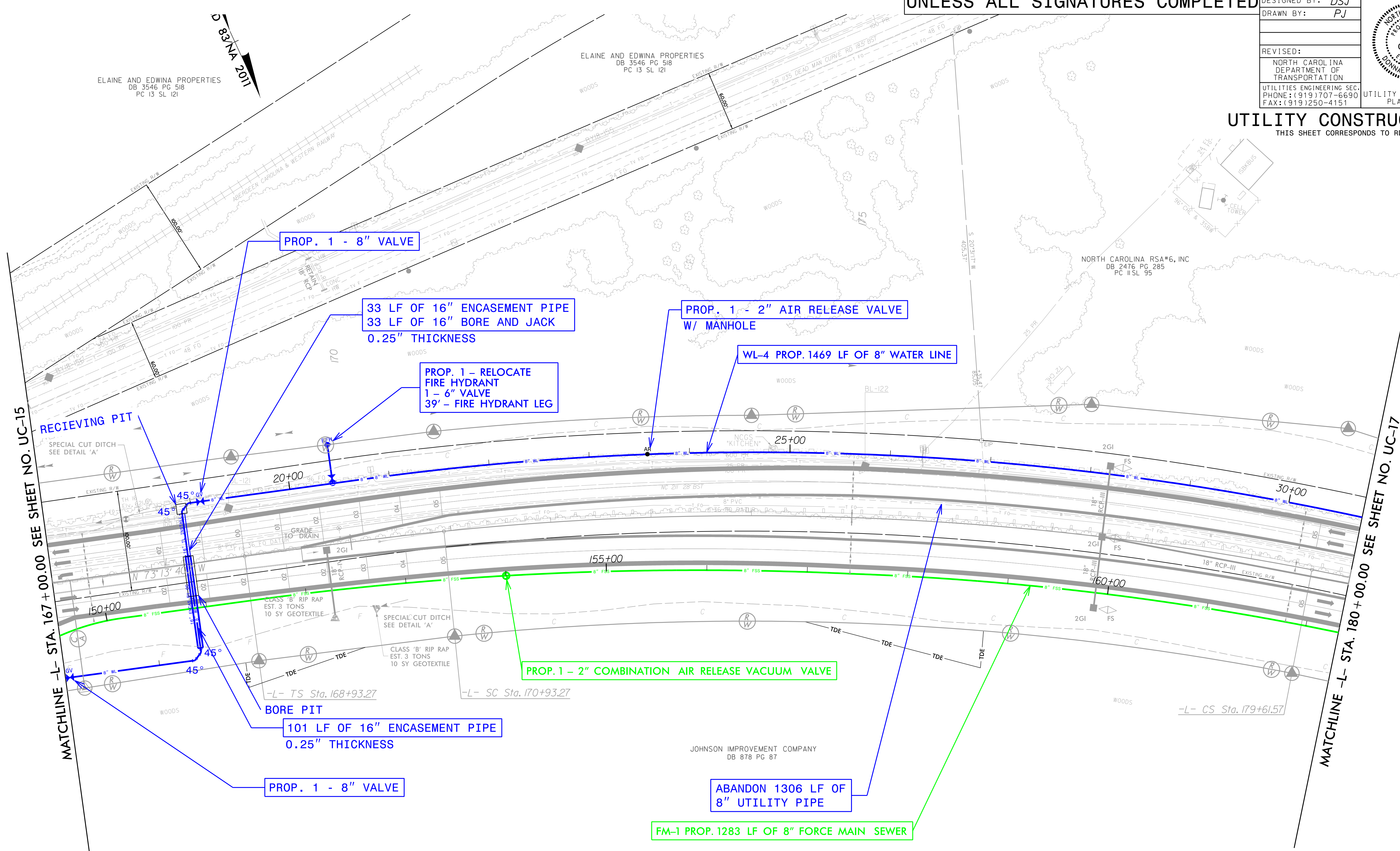
NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 600 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

5/14/99
I:\9508_A\Projects\015-5726-ut.rdy\15-uc15_psh.dgn
15-uc15.dwg

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	R-5726	SHEET NO.	UC-16
DESIGNED BY:	DSJ		
DRAWN BY:	PJ		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151			

UTILITY CONSTRUCTION
THIS SHEET CORRESPONDS TO R0Y-16



SEE SHEET UC-26 & UC-27 FOR WATER PROFILE
SEE SHEET UC-33 & UC-34 FOR SEWER PROFILE

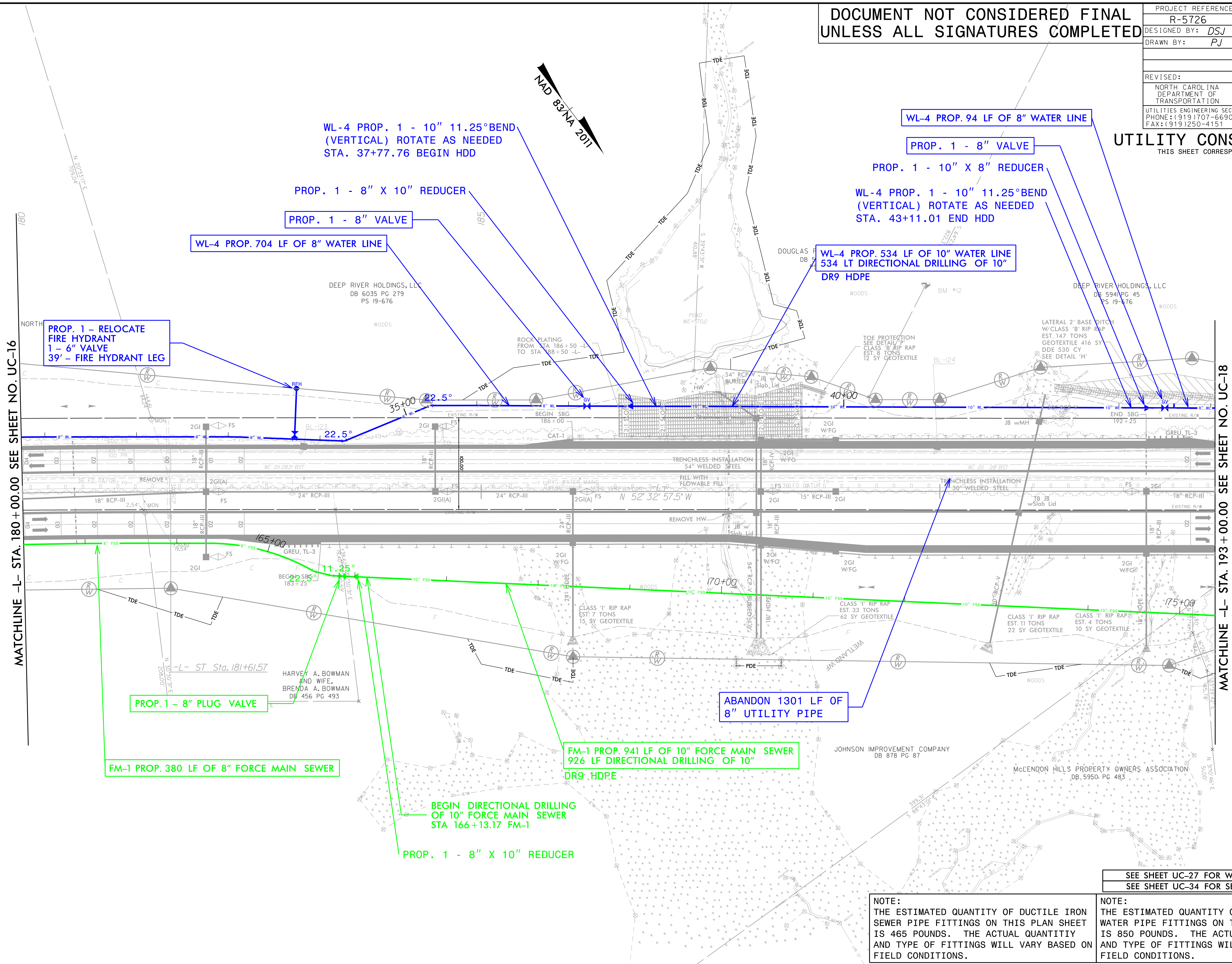
NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 550 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

5/14/99
I:\9509\AN\Projects\2800_016_5726_ut.rd\16_uc16_psh.dgn

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	R-5726	SHEET NO.	UC-17
DESIGNED BY:	DSJ		
DRAWN BY:	PJ		
REVISED:		NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
		UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION
THIS SHEET CORRESPONDS TO R0Y-17



SEE SHEET UC-27 FOR WATER PROFILE
SEE SHEET UC-34 FOR SEWER PROFILE

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON SEWER PIPE FITTINGS ON THIS PLAN SHEET IS 465 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

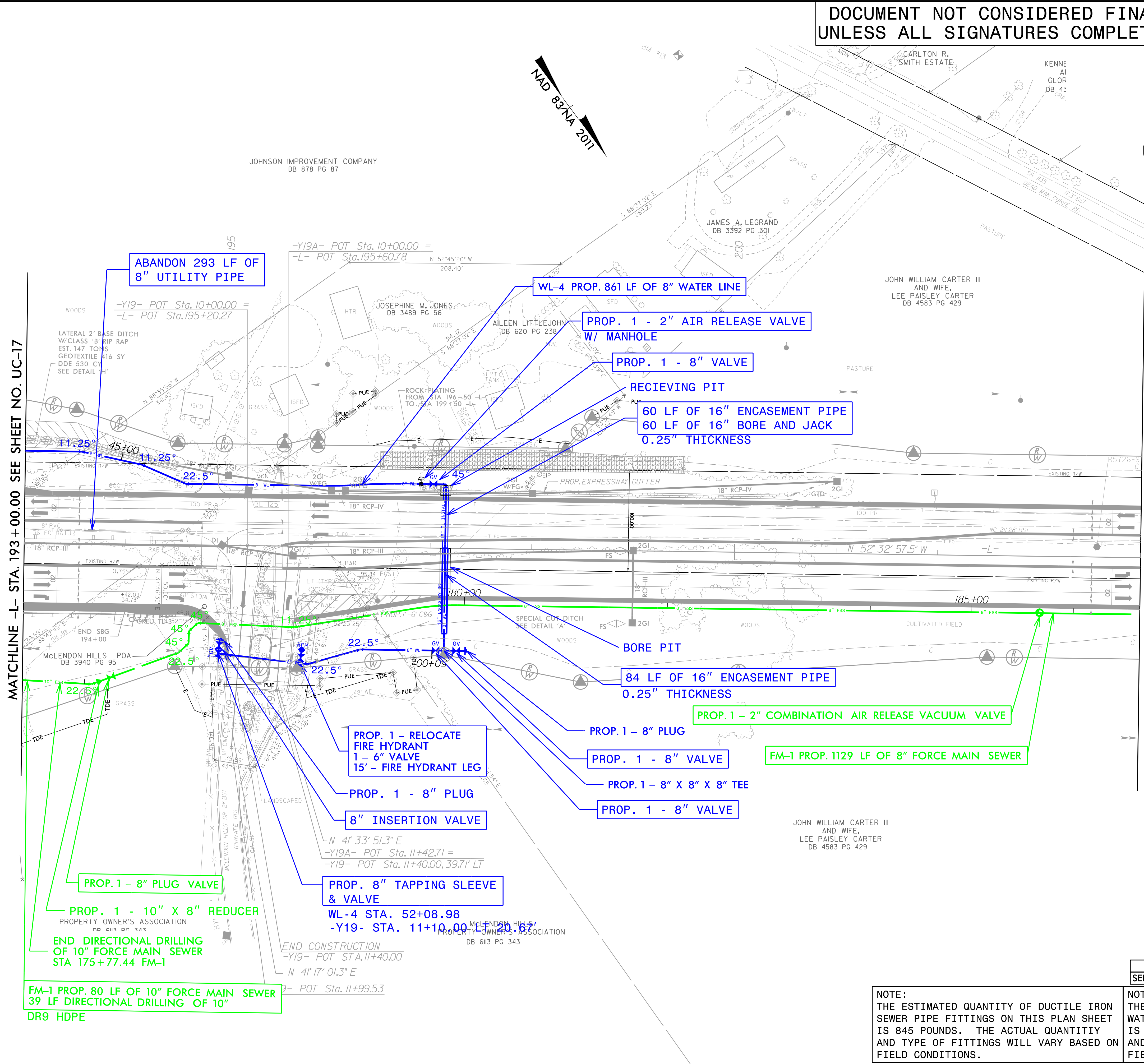
NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 850 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

5/14/99
I:\910_AW\Projects\280.017_r-5726-ut-rd\17_UC17_psh.dgn

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO. R-5726	SHEET NO. UC-18
DESIGNED BY: DSJ	
DRAWN BY: PJ	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	UTILITY CONSTRUCTION PLANS ONLY
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

UTILITY CONSTRUCTION
THIS SHEET CORRESPONDS TO RDY-18



MATCHLINE -L- STA. 193+00.00 SEE SHEET NO. UC-17

MATCHLINE -L- STA. 204+00.00 SEE SHEET NO. UC-19


SEE SHEET UC-27 FOR WATER PROFILE
SEE SHEET UC-34 & UC-35 FOR SEWER PROFILE

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON
SEWER PIPE FITTINGS ON THIS PLAN SHEET
IS 845 POUNDS. THE ACTUAL QUANTITY
AND TYPE OF FITTINGS WILL VARY BASED ON
FIELD CONDITIONS.

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON
WATER PIPE FITTINGS ON THIS PLAN SHEET
IS 1000 POUNDS. THE ACTUAL QUANTITY
AND TYPE OF FITTINGS WILL VARY BASED ON
FIELD CONDITIONS.

5/14/99
I:\912\AM\Projects\2800_018_5726\ut.rd\j18_UC18_psh.dgn
J:\912\AM\Projects\2800_018_5726\ut.rd\j18_UC18_psh.dgn

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

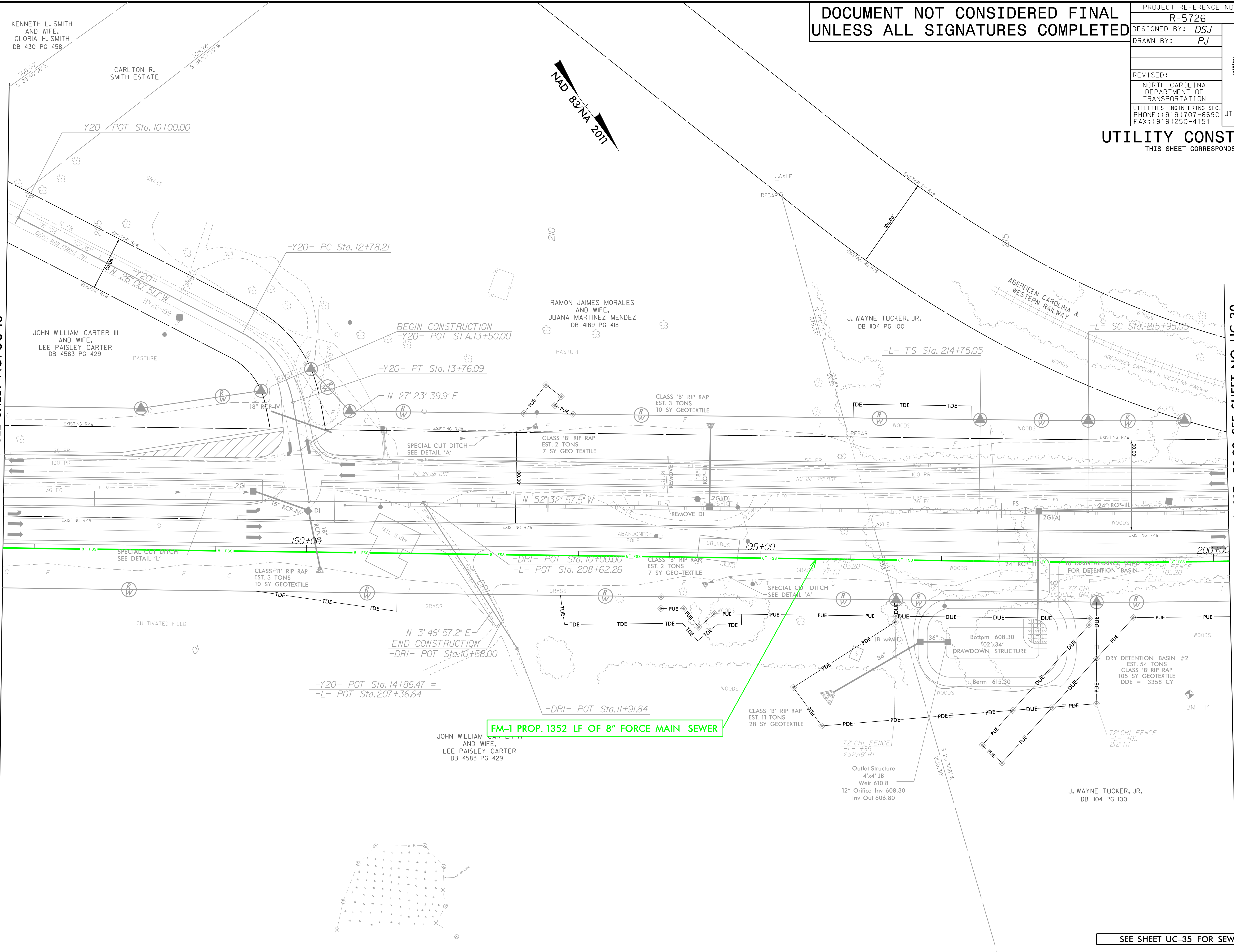
PROJECT REFERENCE NO.	R-5726	SHEET NO.	UC-19
DESIGNED BY:	DSJ		
DRAWN BY:	PJ		
REVISED:		NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION
THIS SHEET CORRESPONDS TO RDY-19

5/14/99
I:\B\14 AM\Projects\2800_019_5726-ut.rdy\19_uc19_psh.dgn

MATCHLINE -L- STA. 204 + 00.00 SEE SHEET NO. UC-18


MATCHLINE -L- STA. 217 + 50.00 SEE SHEET NO. UC-20



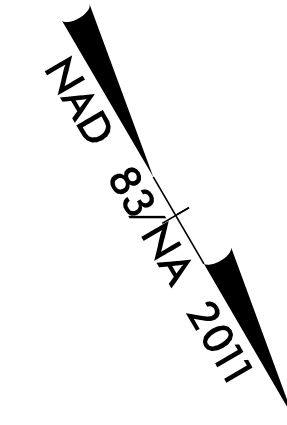
FM-1 PROP. 1352 LF OF 8" FORCE MAIN SEWER

SEE SHEET UC-35 FOR SEWER PROFILE

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

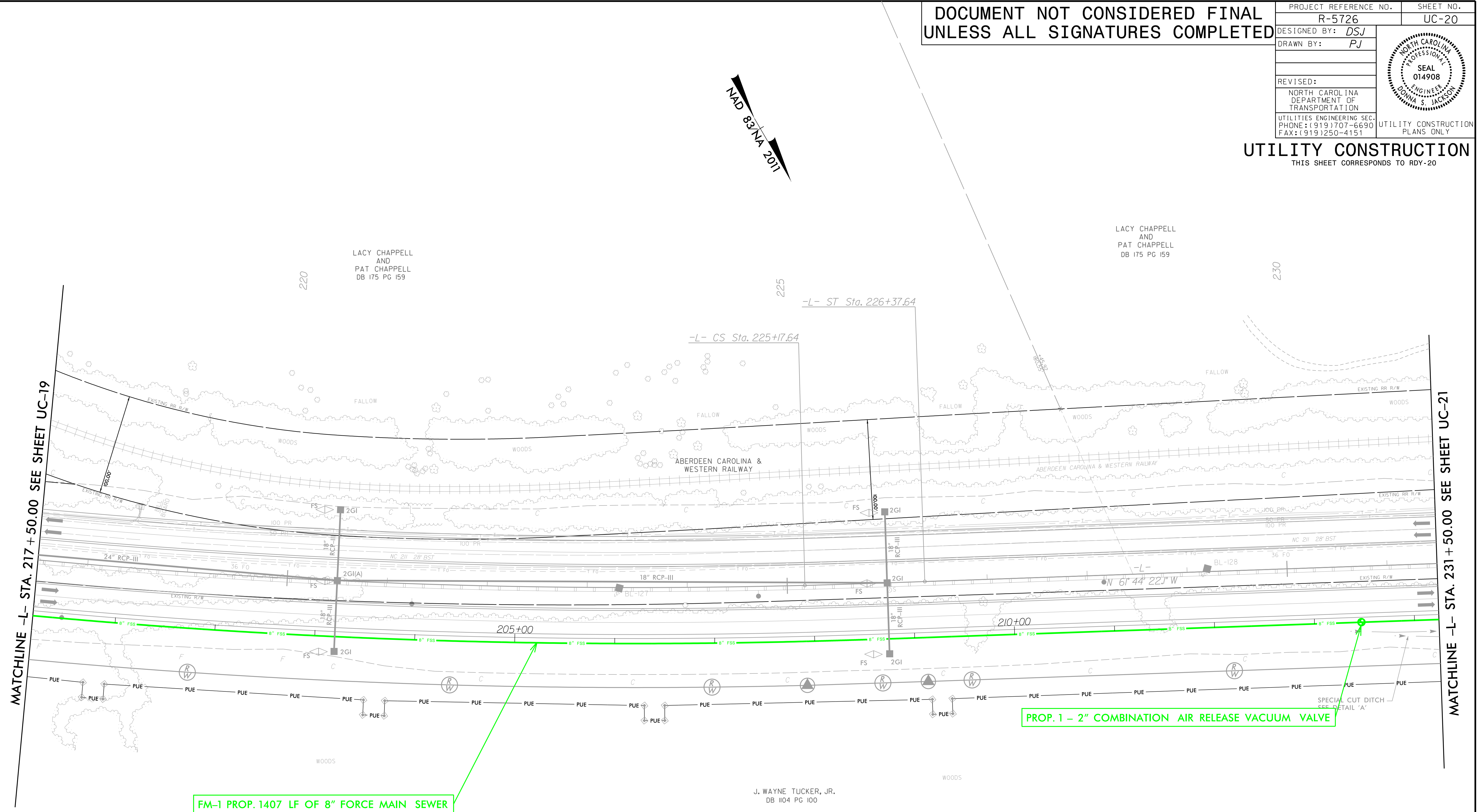
PROJECT REFERENCE NO.	R-5726	SHEET NO.	UC-20
DESIGNED BY:	DSJ		
DRAWN BY:	PJ		
REVISED:		UTILITY CONSTRUCTION PLANS ONLY	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

UTILITY CONSTRUCTION
THIS SHEET CORRESPONDS TO RDY-20



LACY CHAPPELL AND PAT CHAPPELL
DB 175 PG 159

J. WAYNE TUCKER, JR.
DB 1104 PG 100



MATCHLINE -L- STA. 217 + 50.00 SEE SHEET UC-19

MATCHLINE -L- STA. 231 + 50.00 SEE SHEET UC-21


PROP. 1 - 2" COMBINATION AIR RELEASE VACUUM VALVE

FM-1 PROP. 1407 LF OF 8" FORCE MAIN SEWER

SEE SHEET UC-33 & UC-34 FOR SEWER PROFILE

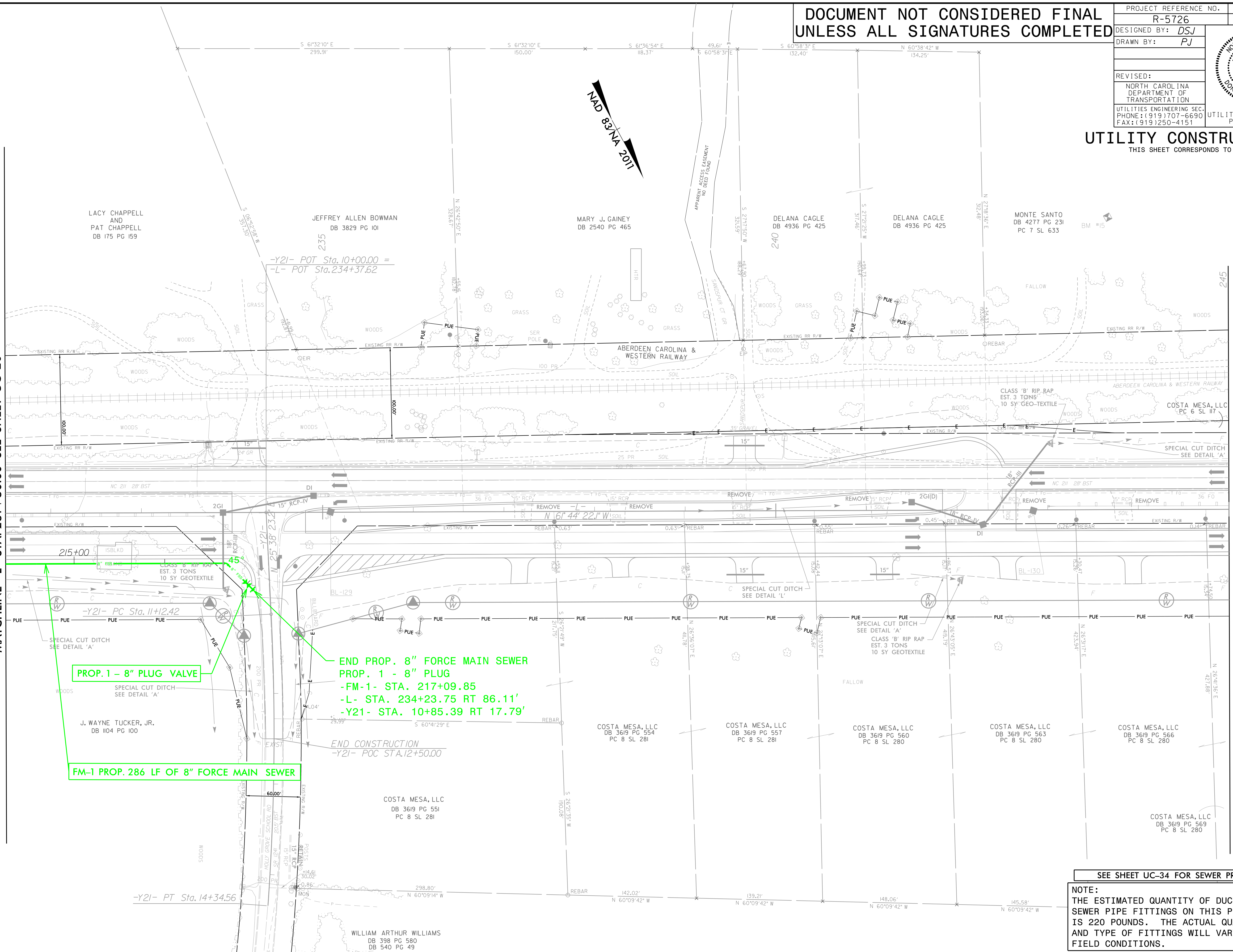
5/14/99
I:\915\AM\proj\020\020_5726_ut_rdy20_uc20_psh.dgn
J:\Engineer\020\020_5726_ut_rdy20_uc20_psh.dgn

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	R-5726	SHEET NO.	UC-21
DESIGNED BY:	DSJ		
DRAWN BY:	PJ		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION			
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION
THIS SHEET CORRESPONDS TO RDY-21

MATCHLINE -L- STA. 231+50.00 SEE SHEET UC-20



PROP. 1 - 8" PLUG VALVE

END PROP. 8" FORCE MAIN SEWER
PROP. 1 - 8" PLUG
 -FM-1- STA. 217+09.85
 -L- STA. 234+23.75 RT 86.11'
 -Y21- STA. 10+85.39 RT 17.79'

FM-1 PROP. 286 LF OF 8" FORCE MAIN SEWER

END CONSTRUCTION
 -Y21- POC STA. 12+50.00

SEE SHEET UC-34 FOR SEWER PROFILE


NOTE:
 THE ESTIMATED QUANTITY OF DUCTILE IRON SEWER PIPE FITTINGS ON THIS PLAN SHEET IS 220 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

5/14/99
 I:\40338\AM\Projects\021-5726-ut-rdy\21_UC21_psh.dgn
 11/14/03 3:38 AM
 021-5726-ut-rdy\21_UC21_psh.dgn

5/14/99

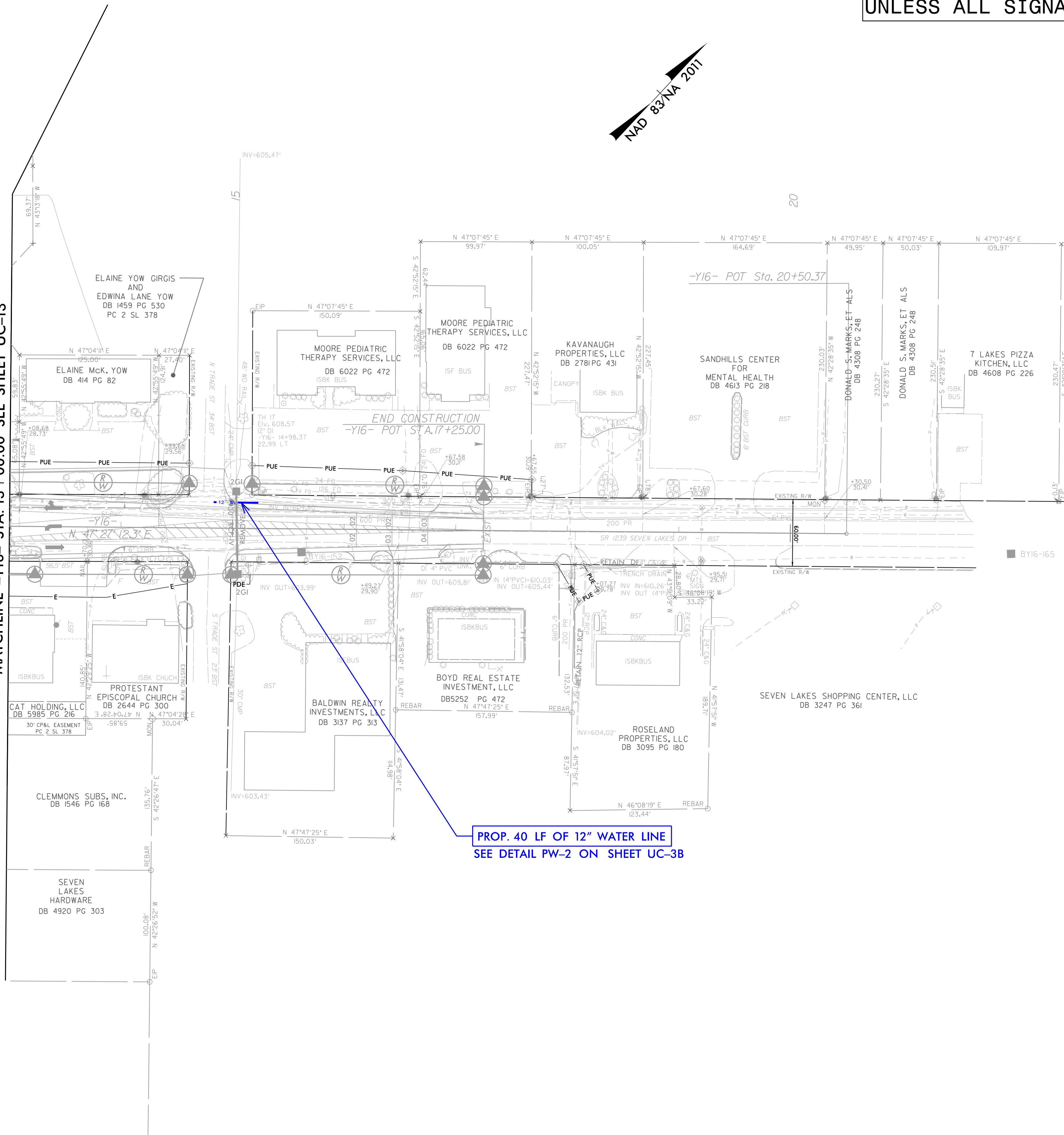
s:\Engineering\Projects\280.026.r5726.ut.rdy26.uc22.psh.dgn

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO. R-5726	SHEET NO. UC-22
DESIGNED BY: DSJ	
DRAWN BY: PJ	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION
THIS SHEET CORRESPONDS TO RDY-26

MATCHLINE -Y16- STA. 13 + 00.00 SEE SHEET UC-13



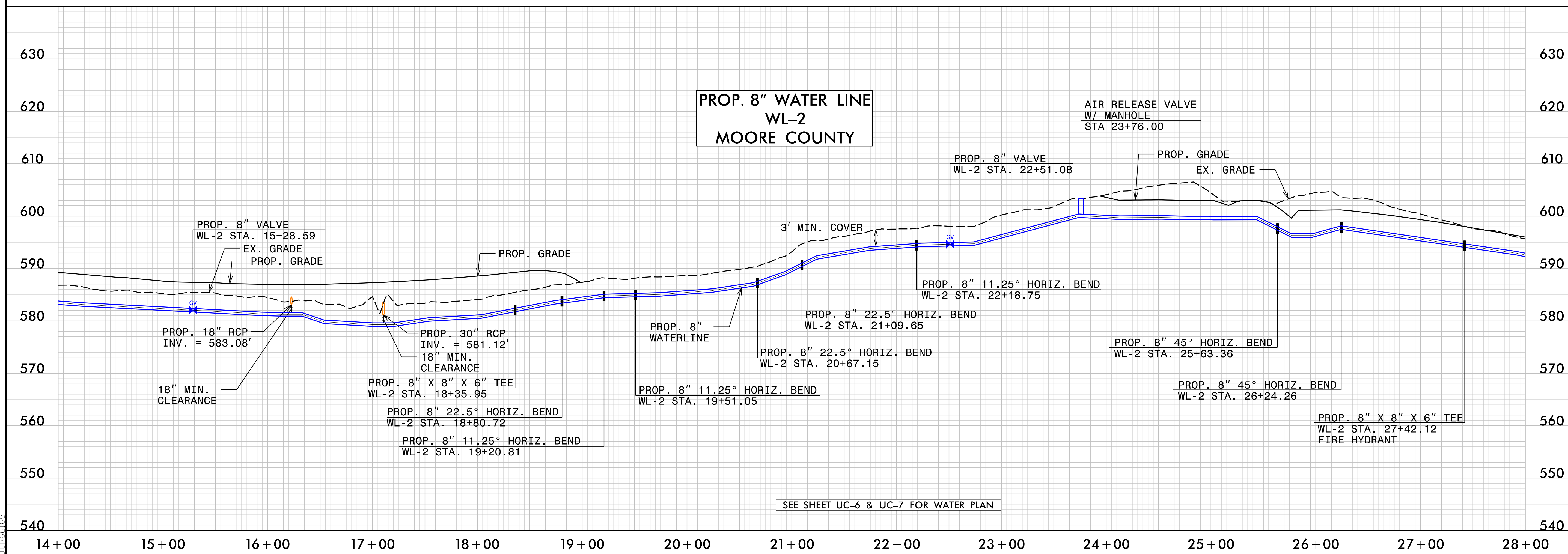
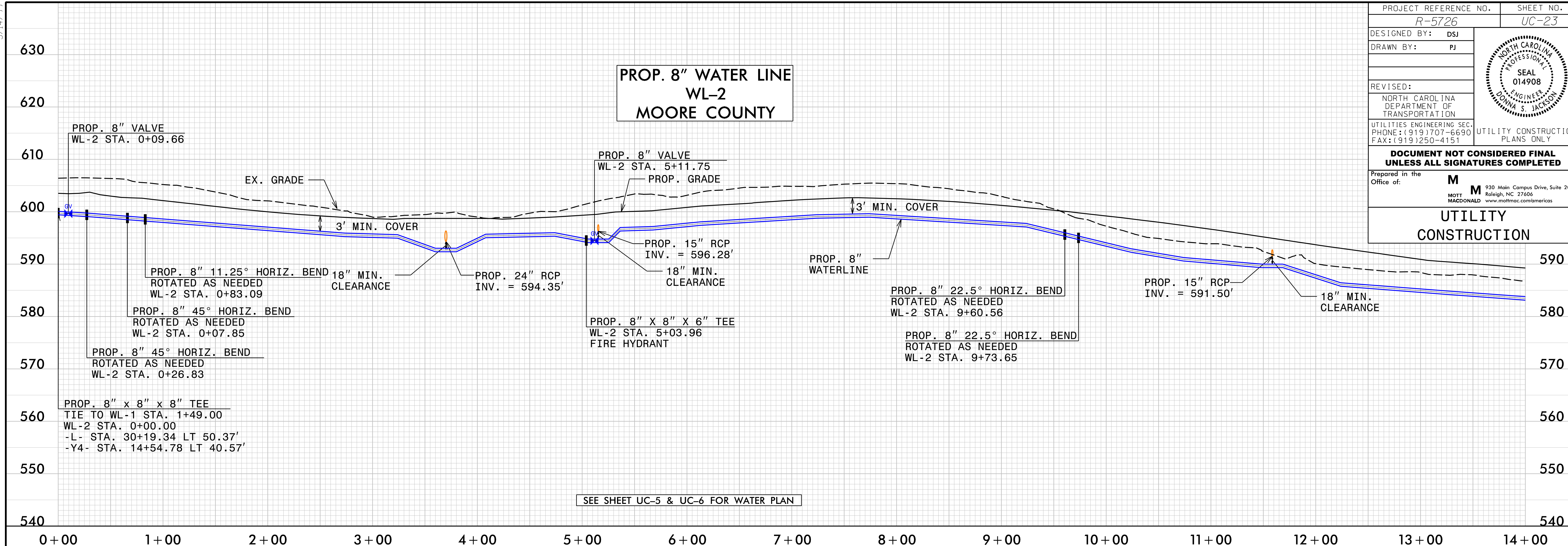
PROP. 40 LF OF 12" WATER LINE
SEE DETAIL PW-2 ON SHEET UC-3B

SEE SHEET UC-25 FOR WATER PROFILE
SEE SHEET UC-36 FOR SEWER PROFILE

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 880 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

5/14/99

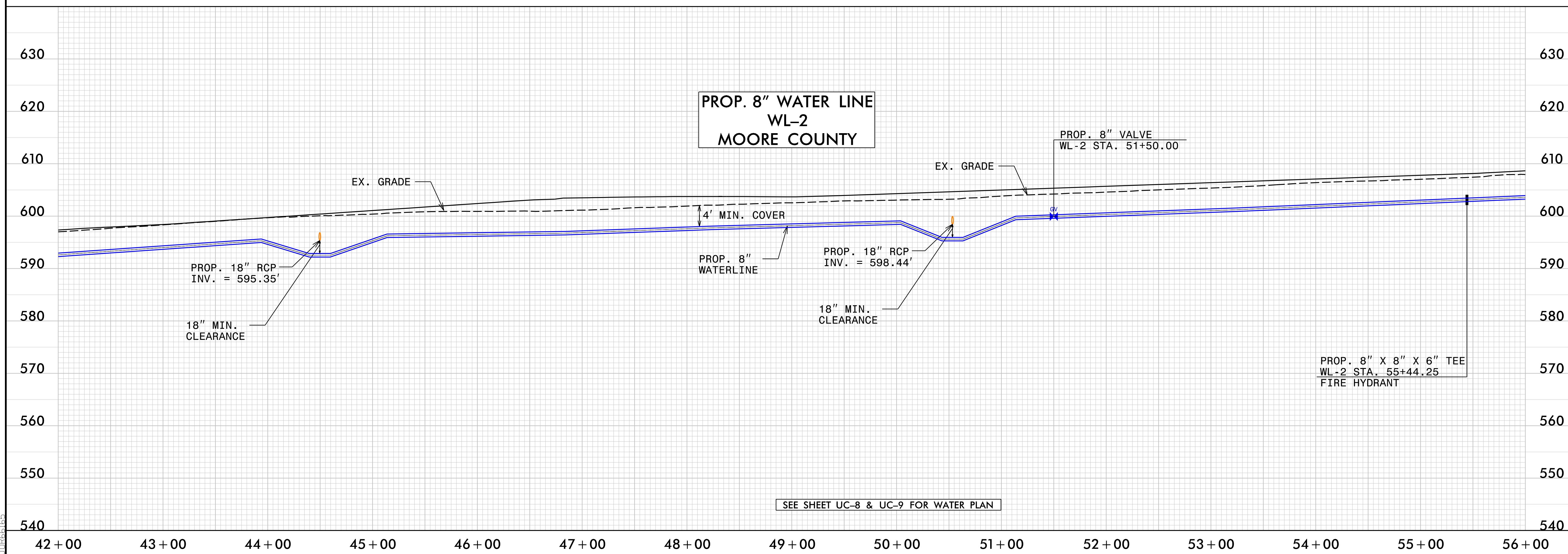
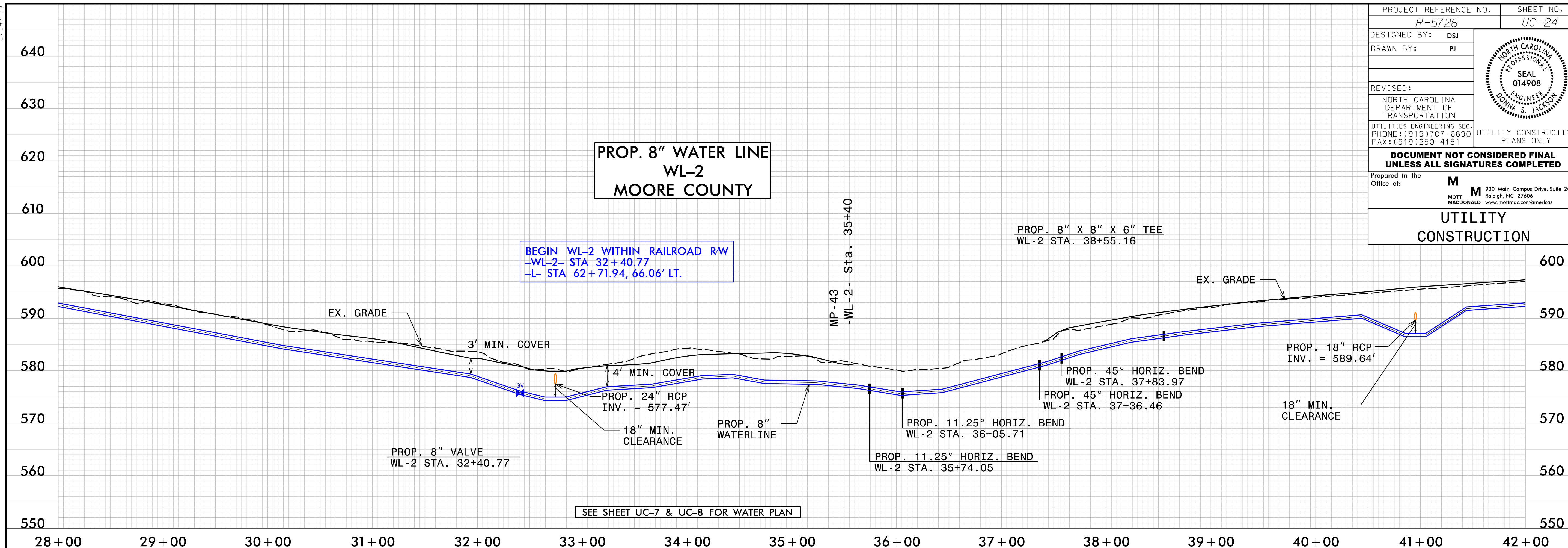
PROJECT REFERENCE NO. R-5726	SHEET NO. UC-23
DESIGNED BY: DSJ	
DRAWN BY: PJ	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 UTILITY CONSTRUCTION PLANS ONLY	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	
UTILITY CONSTRUCTION	



I:\AT\57 AM\Projects\Engineering\UC\Proj\2800_R5726_ut_UC23.dgn

5/14/99

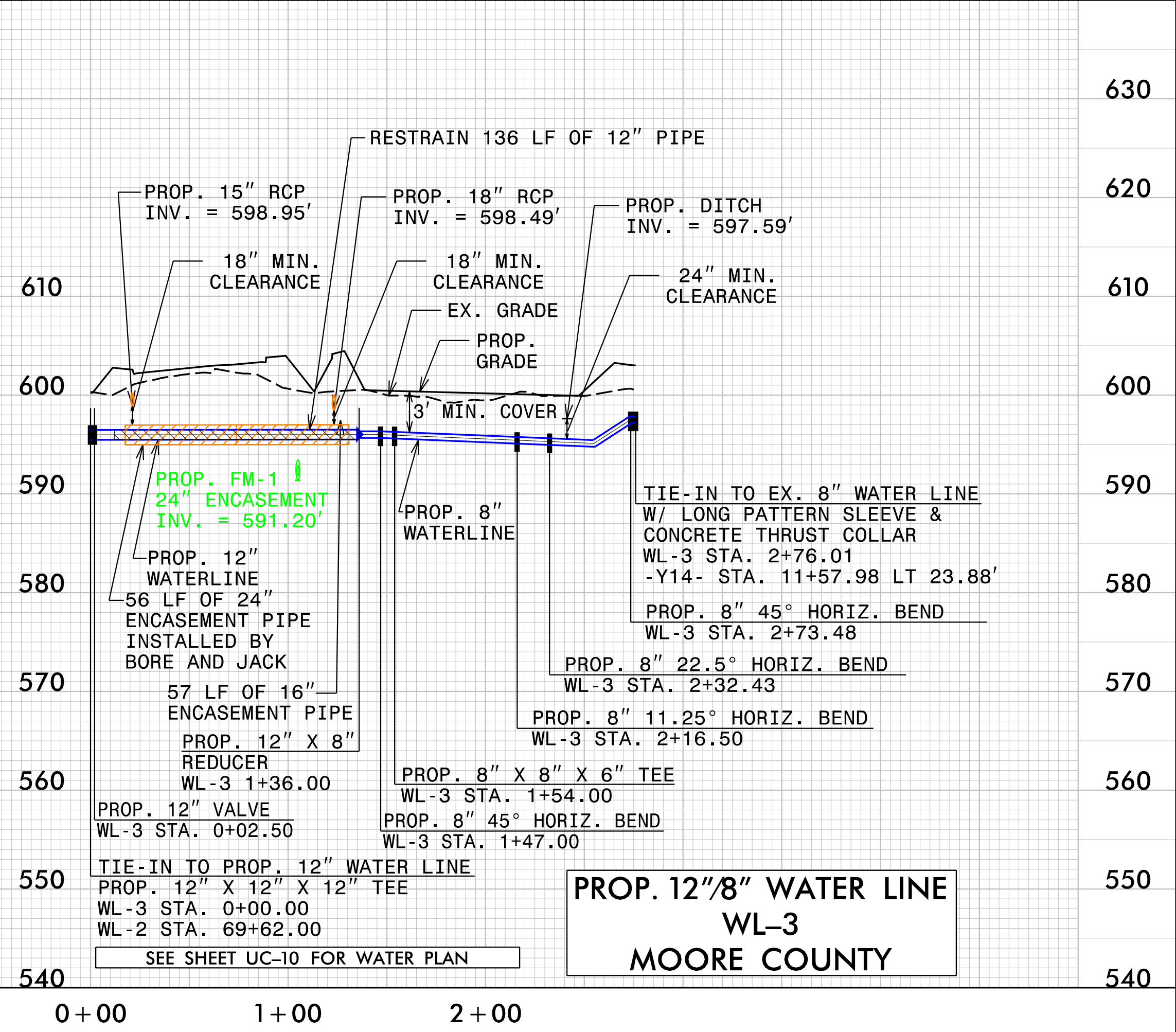
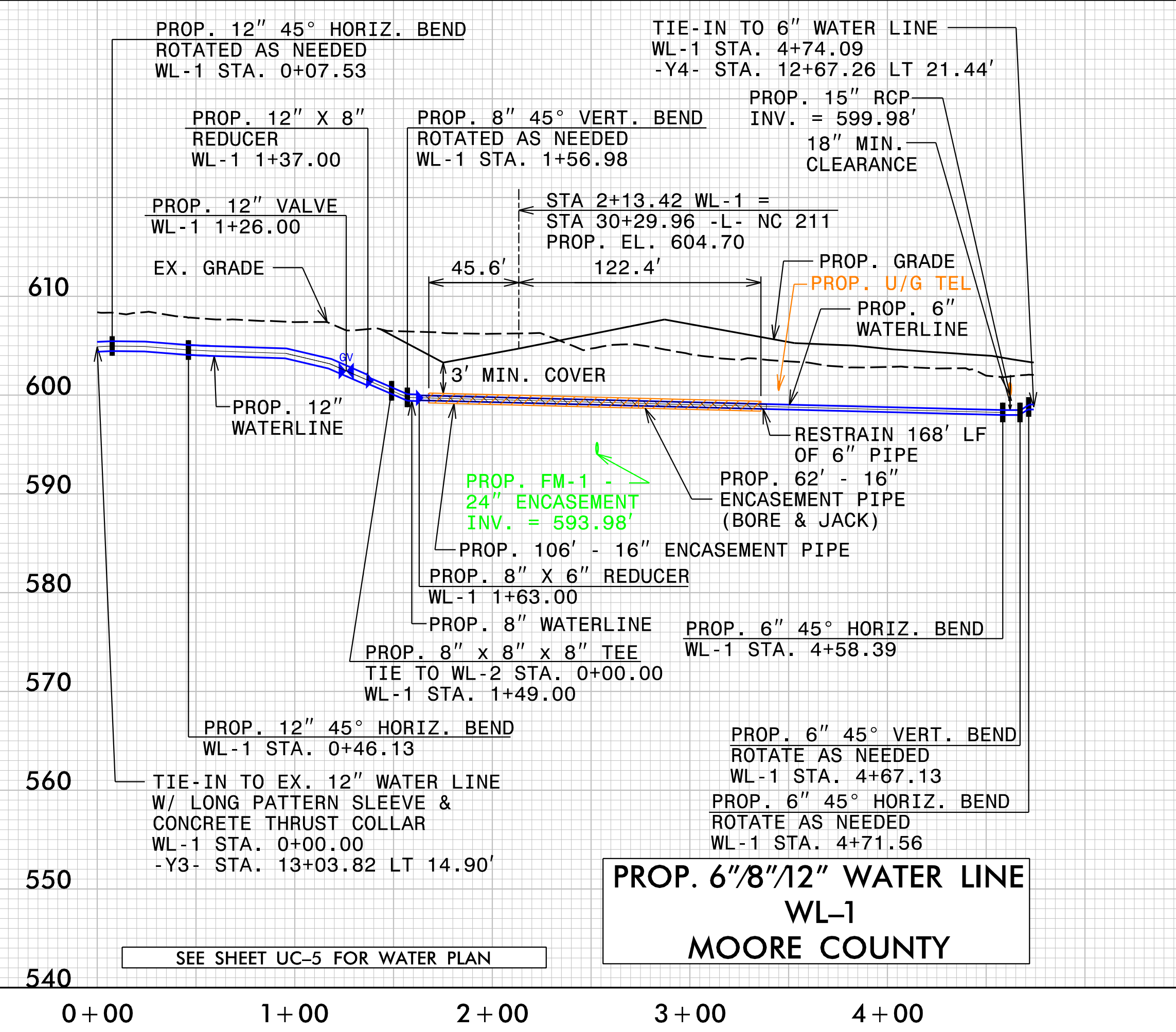
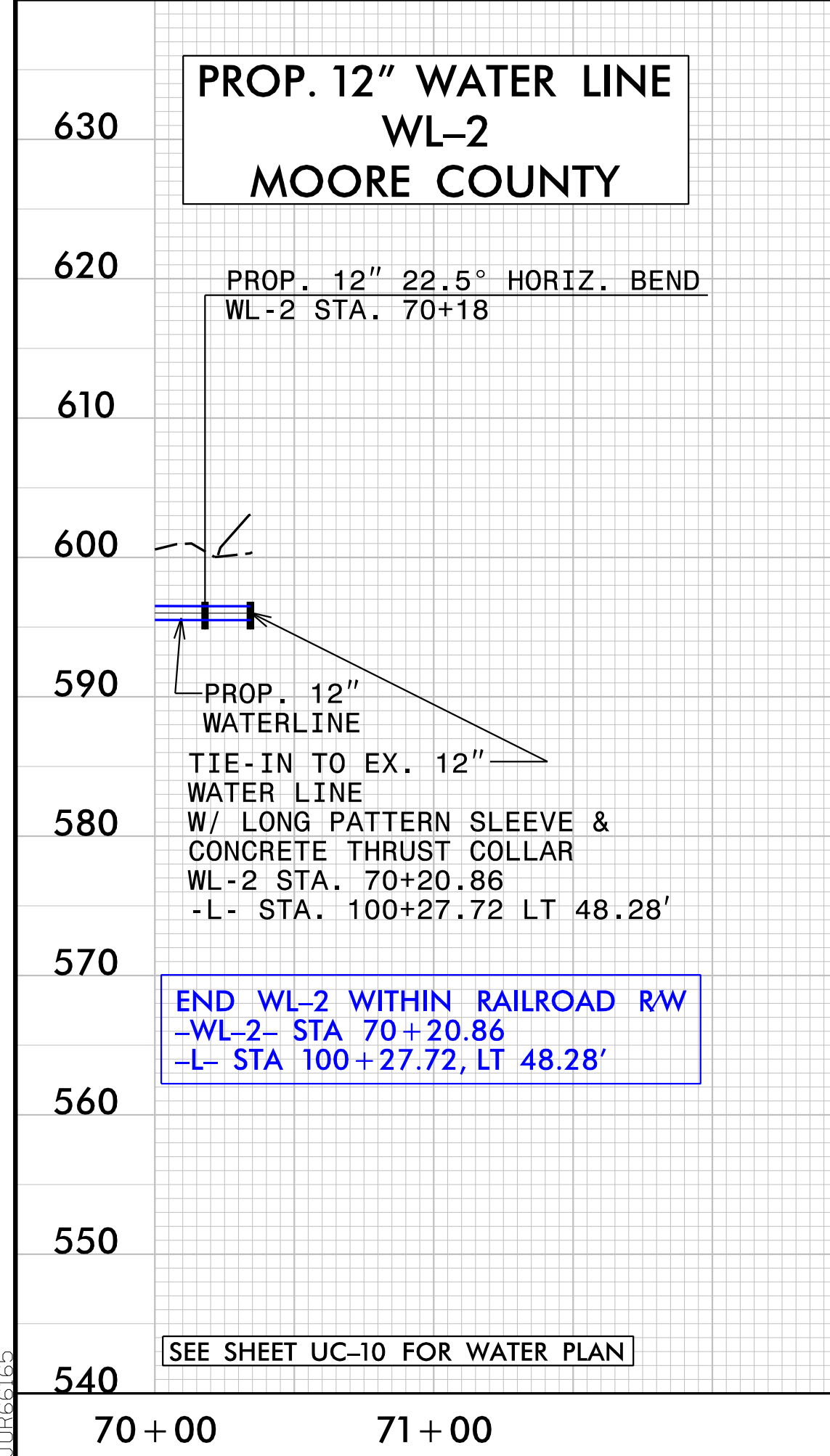
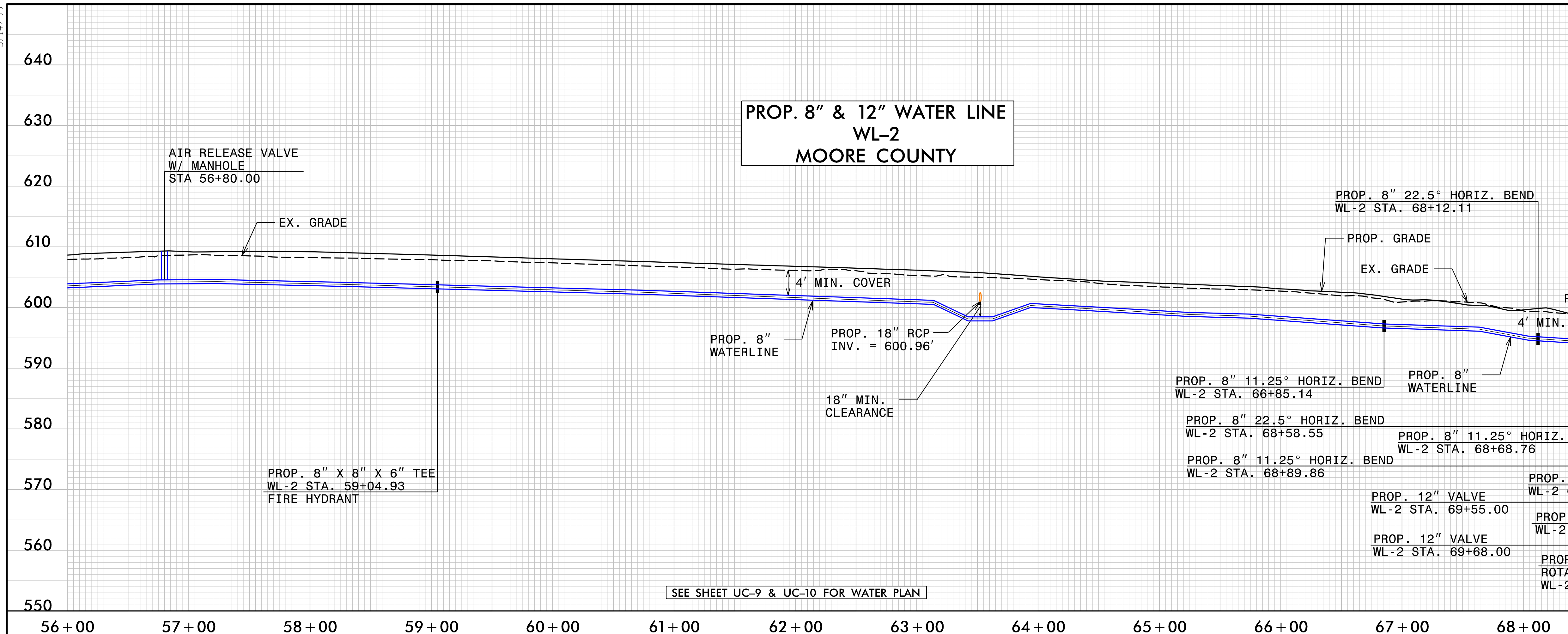
PROJECT REFERENCE NO. R-5726	SHEET NO. UC-24
DESIGNED BY: DSJ	
DRAWN BY: PJ	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 UTILITY CONSTRUCTION PLANS ONLY	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	M MOTT MACDONALD 938 Main Campus Drive, Suite 200 Raleigh, NC 27606 www.mottmac.com/americas
UTILITY CONSTRUCTION	





I:\04801\AM...UC24.dgn

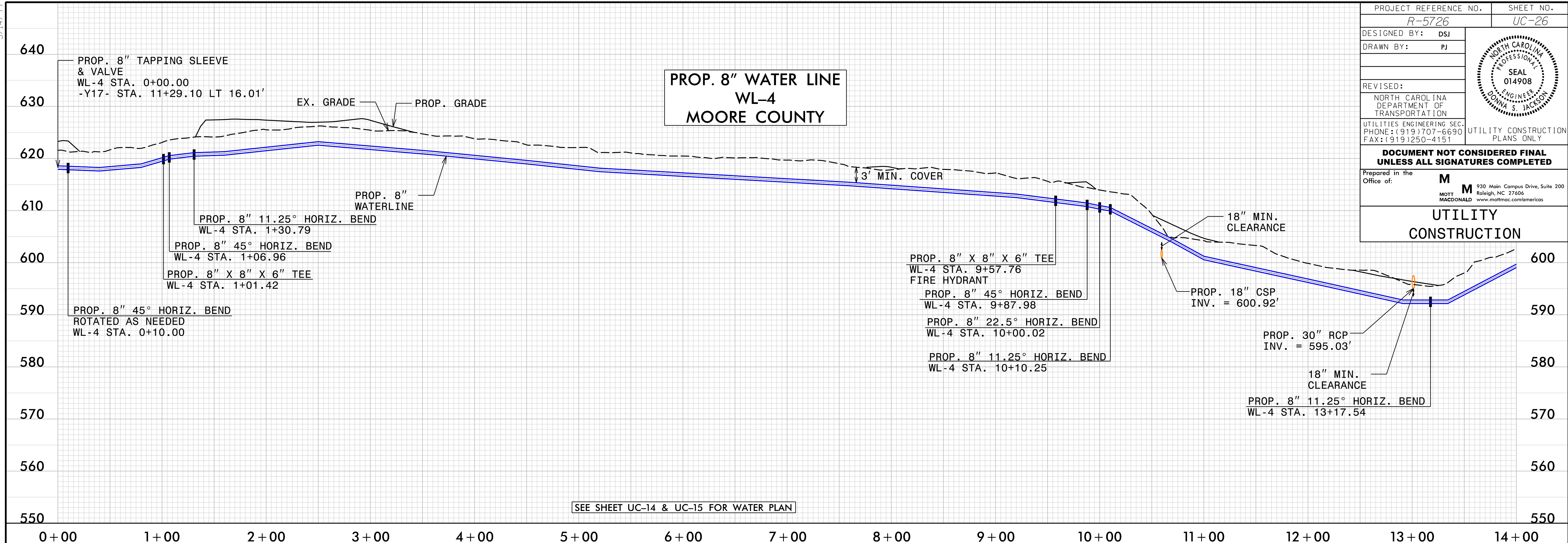
5/14/99
I:\048133\AM\Projects\Engineering\UC\Proj\2800_040_R5726_ut_UC25.dgn

PROJECT REFERENCE NO.	R-5726	SHEET NO.	UC-25
DESIGNED BY:	DSJ	NORTH CAROLINA PROFESSIONAL ENGINEERS SEAL 014908 DONNA S. JACKSON	
DRAWN BY:	PJ		
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION			
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		UTILITY CONSTRUCTION PLANS ONLY	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Prepared in the Office of: M MOTT MACDONALD 938 Main Campus Drive, Suite 200 Raleigh, NC 27606 www.mottmac.com/americas			
UTILITY CONSTRUCTION			

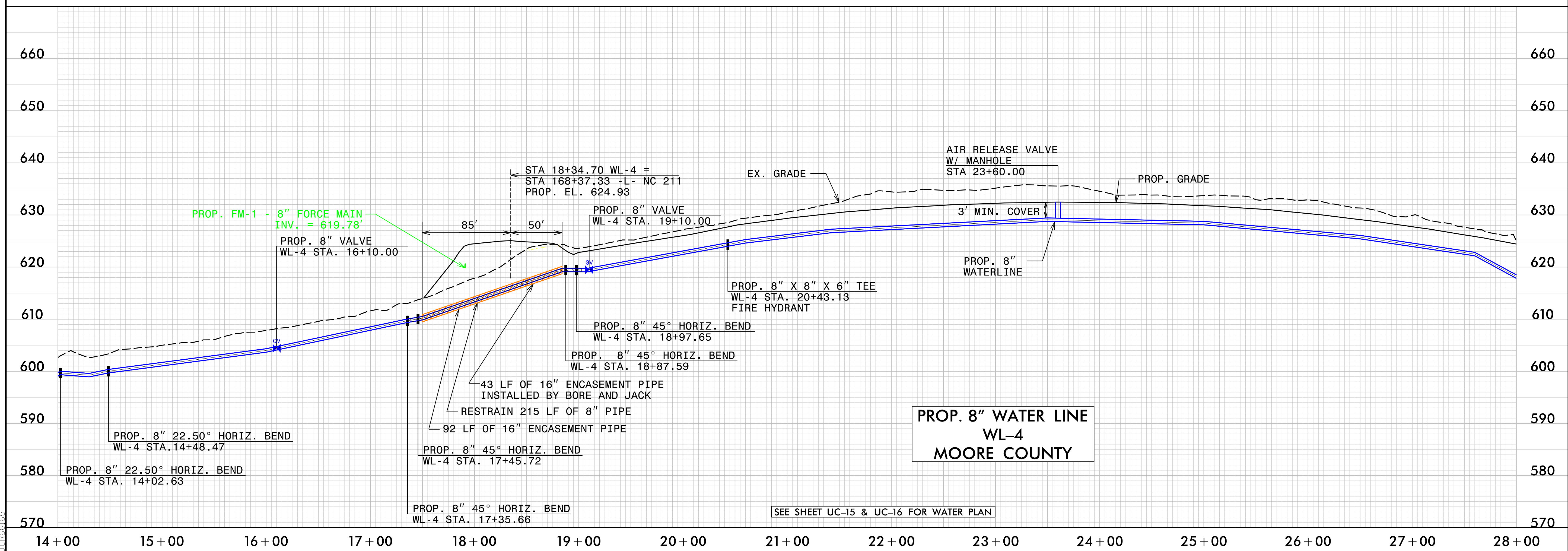


5/14/99

PROJECT REFERENCE NO. R-5726	SHEET NO. UC-26
DESIGNED BY: DSJ	
DRAWN BY: PJ	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 UTILITY CONSTRUCTION PLANS ONLY	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	
UTILITY CONSTRUCTION	



SEE SHEET UC-14 & UC-15 FOR WATER PLAN

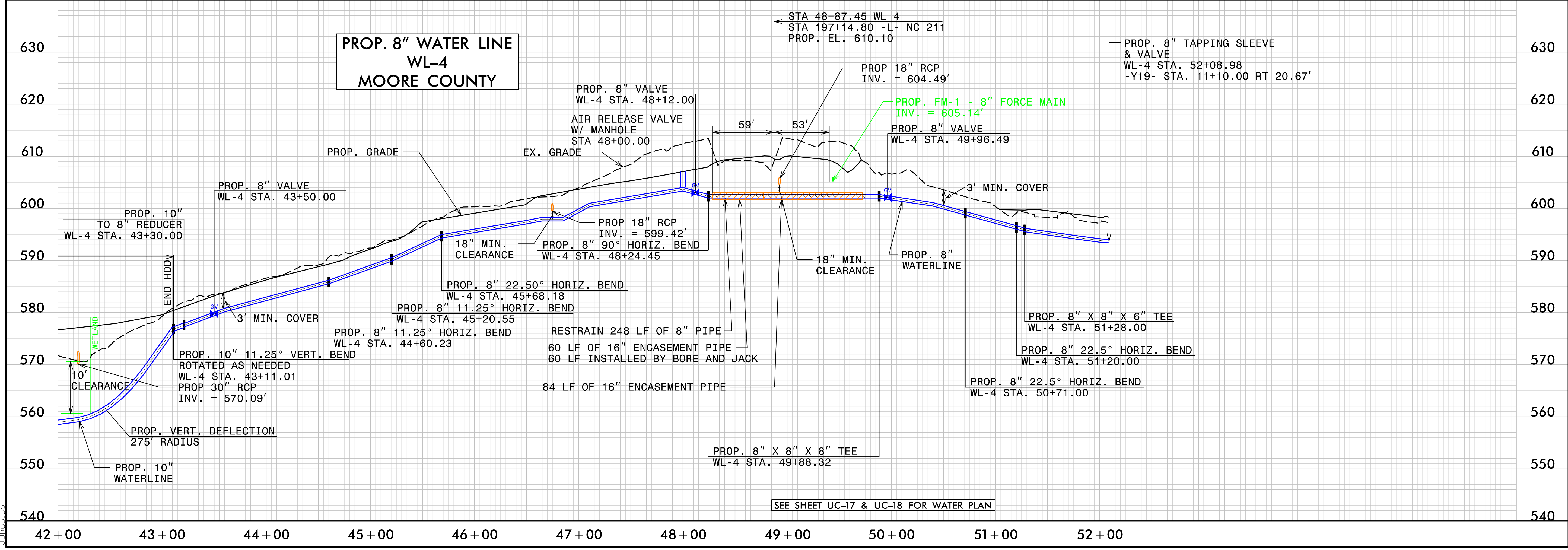
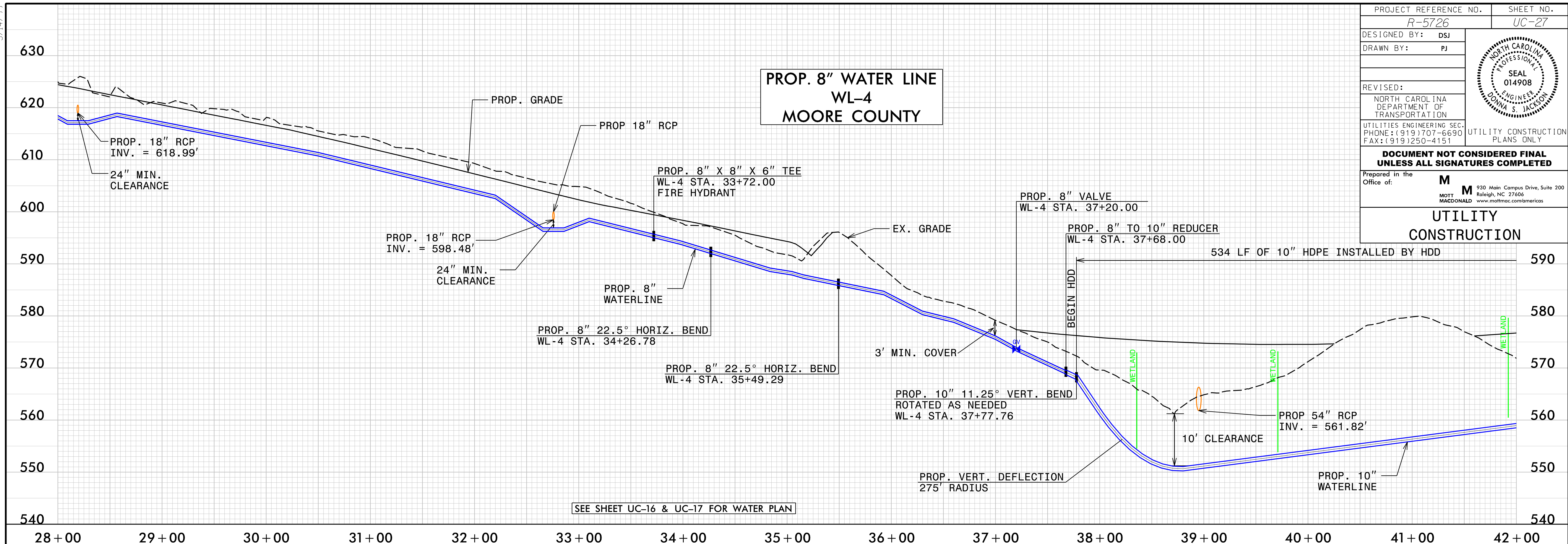


SEE SHEET UC-15 & UC-16 FOR WATER PLAN

I:\04539_AW\Projects\Engineering\UC\Proj\280_045_R5726_ut_UC26.dgn

5/14/99

PROJECT REFERENCE NO. R-5726	SHEET NO. UC-27
DESIGNED BY: DSJ	
DRAWN BY: PJ	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 UTILITY CONSTRUCTION PLANS ONLY	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	
938 Main Campus Drive, Suite 200 Raleigh, NC 27606 www.mottmac.com/americas	



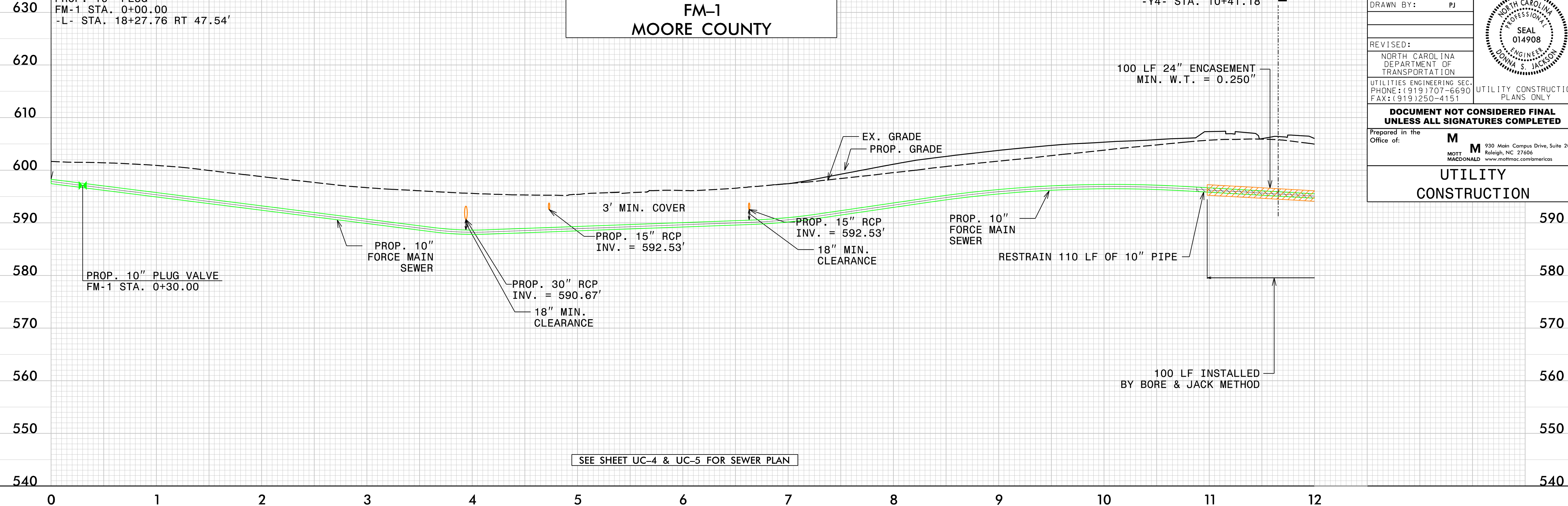
I:\08-44 AM\Projects\Engineering\UC\Proj\280.050.R5726.ut.UC27.dgn

5/14/99

BEGIN PROP. 10" FORCE MAIN SEWER
PROP. 10" PLUG
FM-1 STA. 0+00.00
-L- STA. 18+27.76 RT 47.54'

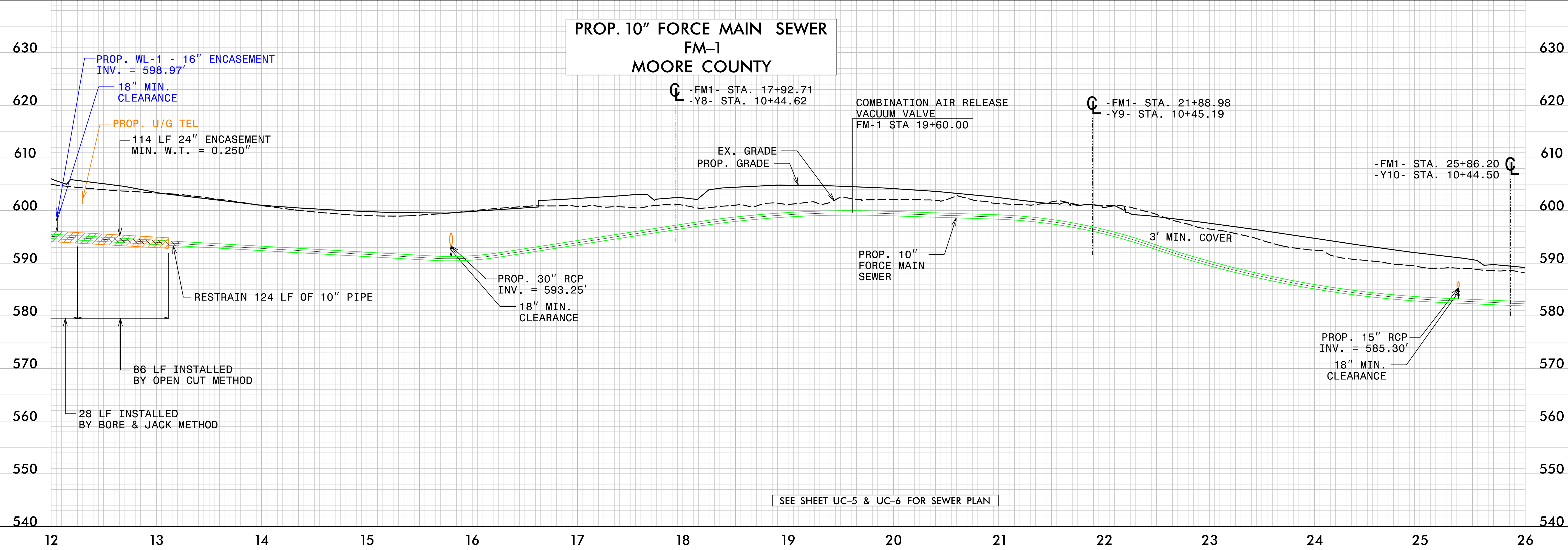
PROP. 10" FORCE MAIN SEWER FM-1 MOORE COUNTY

-FM1- STA. 11+65.44
-Y4- STA. 10+41.18



SEE SHEET UC-4 & UC-5 FOR SEWER PLAN

PROJECT REFERENCE NO. R-5726	SHEET NO. UC-28
DESIGNED BY: DSJ	
DRAWN BY: PJ	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	UTILITY CONSTRUCTION PLANS ONLY
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	M 938 Main Campus Drive, Suite 200 MOTT MACDONALD Raleigh, NC 27606 www.mottmac.com/americas
UTILITY CONSTRUCTION	

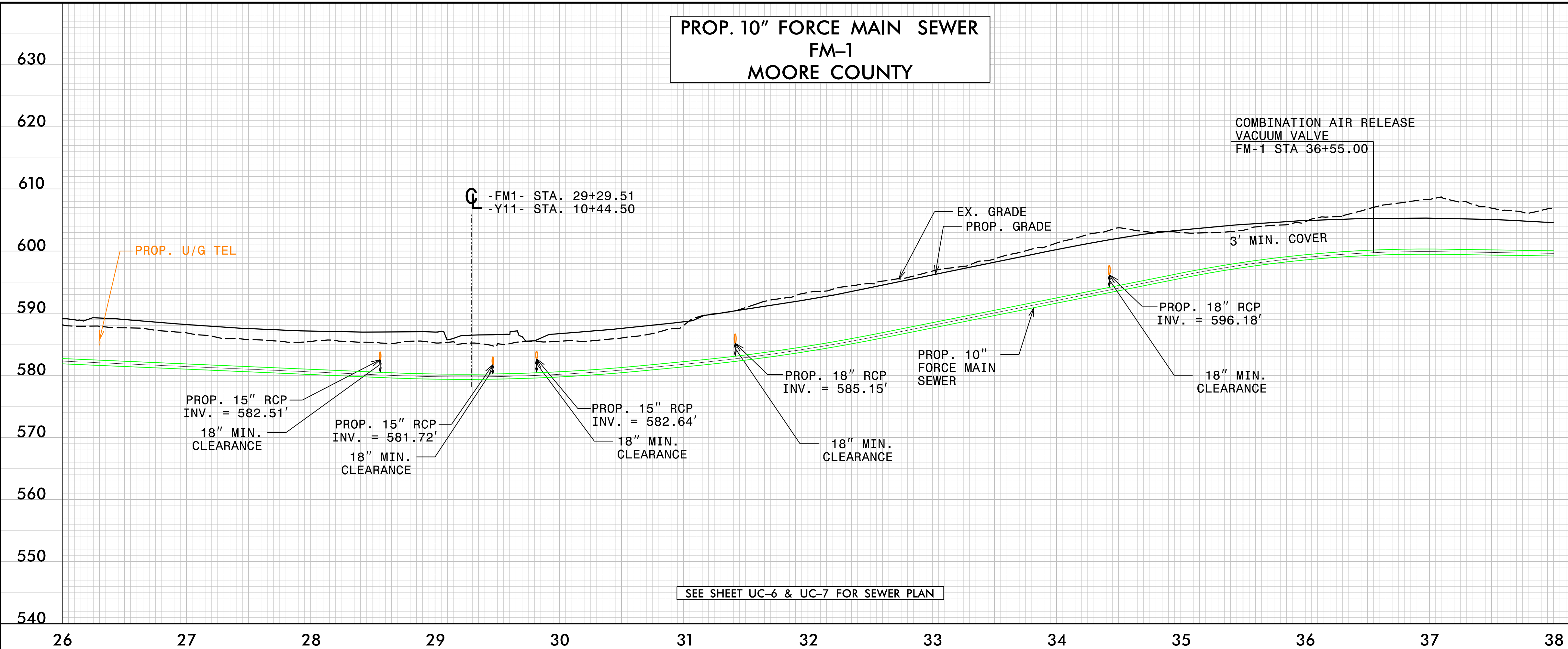


SEE SHEET UC-5 & UC-6 FOR SEWER PLAN

I:\04846 AM
PC\Utility\116
10R36165
Engineering\UC\Proj\280.085.R5726.ut_UC28.dgn

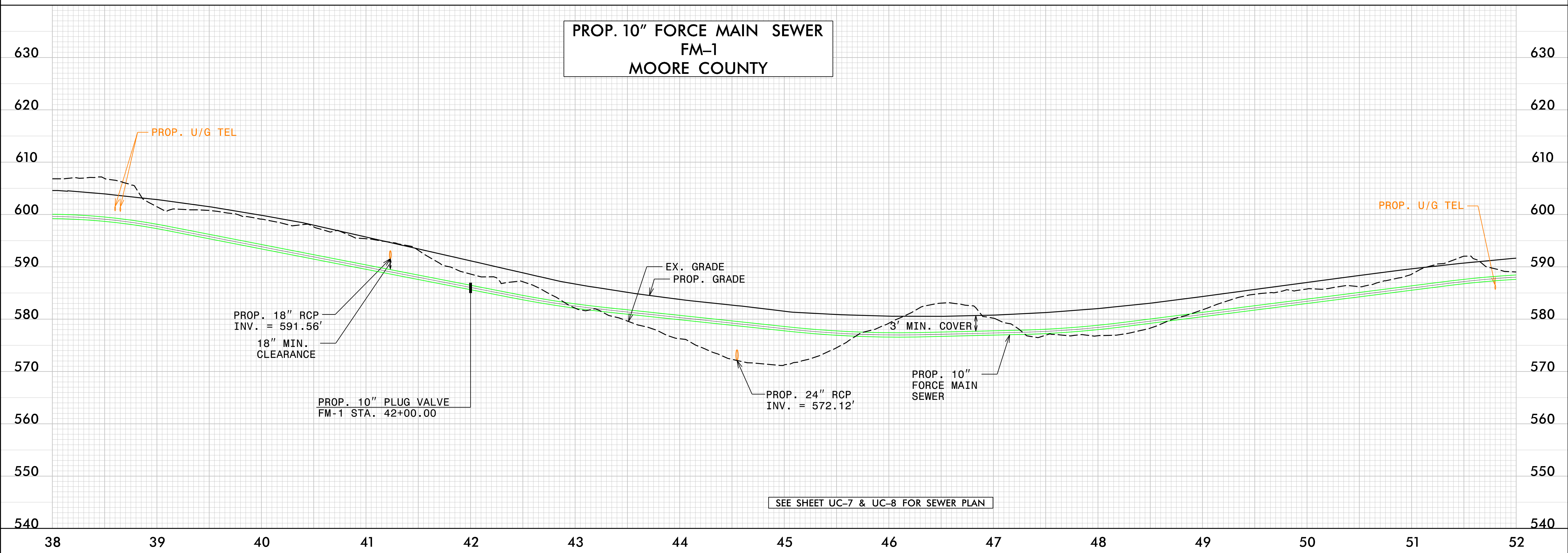
5/14/99

PROP. 10" FORCE MAIN SEWER FM-1 MOORE COUNTY



SEE SHEET UC-6 & UC-7 FOR SEWER PLAN

PROP. 10" FORCE MAIN SEWER FM-1 MOORE COUNTY



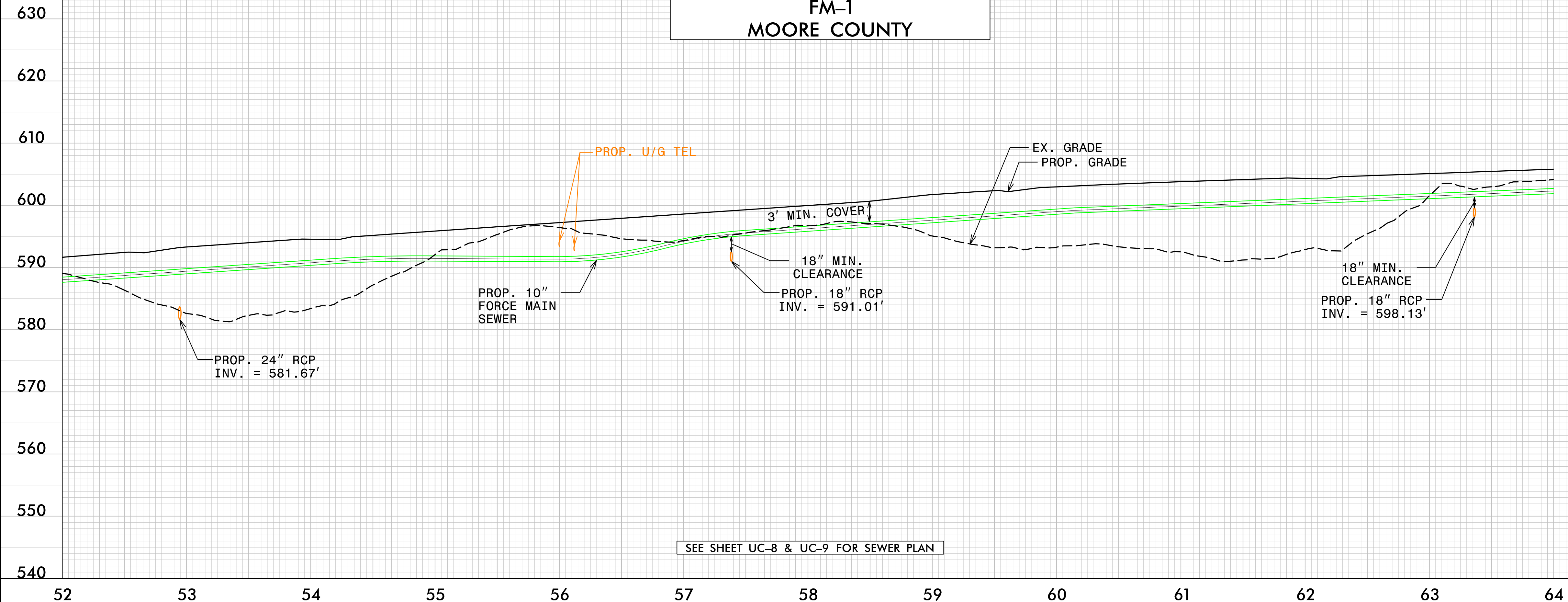
SEE SHEET UC-7 & UC-8 FOR SEWER PLAN

PROJECT REFERENCE NO. <i>R-5726</i>	SHEET NO. <i>UC-29</i>
DESIGNED BY: <i>DSJ</i>	
DRAWN BY: <i>PJ</i>	
REVISED:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151
UTILITY CONSTRUCTION PLANS ONLY	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	M MOTT MACDONALD 938 Main Campus Drive, Suite 200 Raleigh, NC 27606 www.mottmac.com/americas

I:\04851\AM...Engineering\UC\Proj\280_090_R5726_ut_UC29.dgn

5/14/99

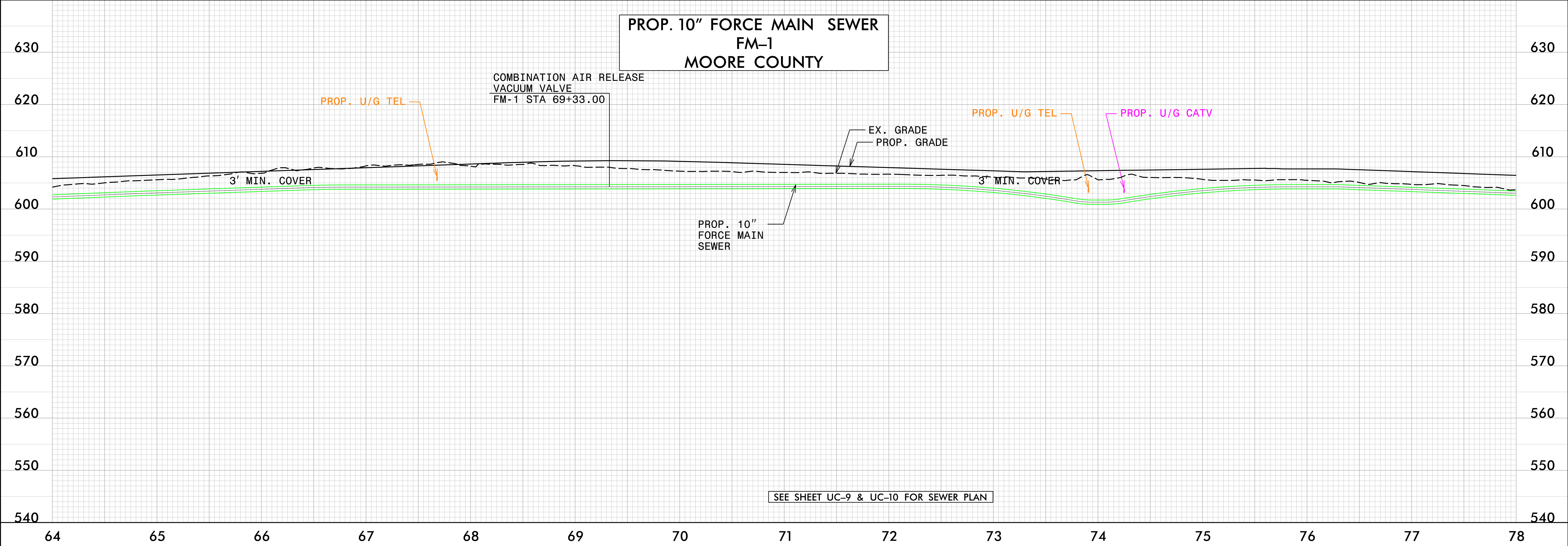
PROP. 10" FORCE MAIN SEWER
FM-1
MOORE COUNTY



SEE SHEET UC-8 & UC-9 FOR SEWER PLAN

PROJECT REFERENCE NO. R-5726	SHEET NO. UC-30
DESIGNED BY: DSJ	
DRAWN BY: PJ	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	UTILITY CONSTRUCTION PLANS ONLY
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	
UTILITY CONSTRUCTION	

PROP. 10" FORCE MAIN SEWER
FM-1
MOORE COUNTY



SEE SHEET UC-9 & UC-10 FOR SEWER PLAN

IC:\9155 AM
R-5726-UC-30.dgn