

-L- PC STA 10+00.00=  
-Y1- POT STA 12+16.40  
N: 997.695.20  
E: 2.873.683.88

BEGIN UTILITY CONSTRUCTION PROJECT R-4429 A  
-Y- STA.12+14.99, OFFSET 14'

CLOSE VALVE  
CUT/CAP EXISTING 8" WATER PIPE  
ADD CONCRETE THRUST BLOCK

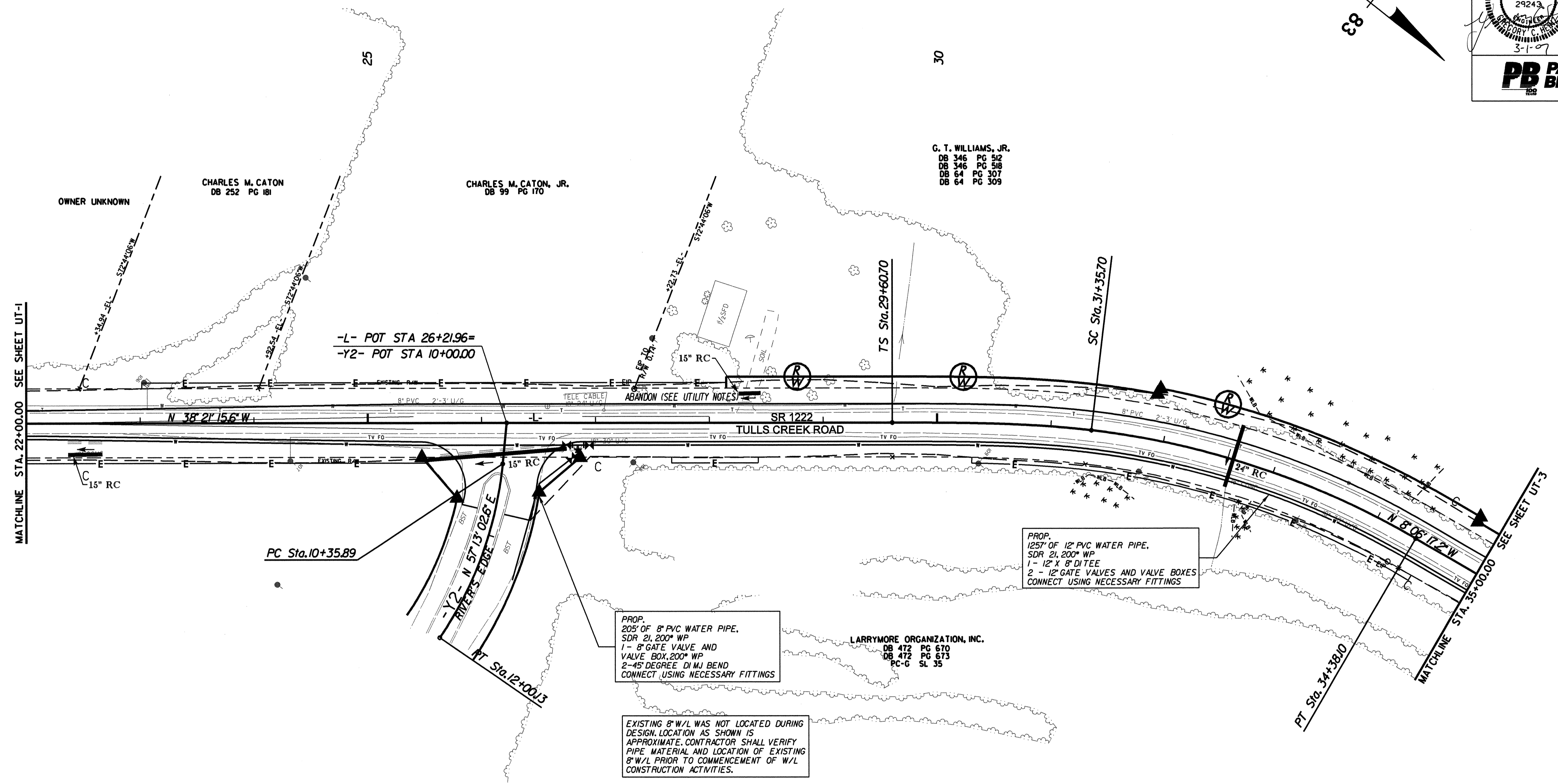
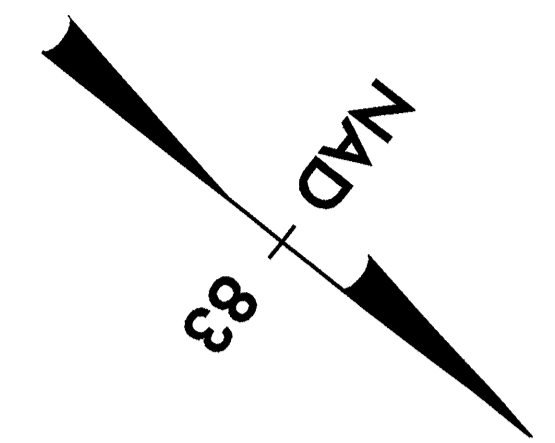
PROP.  
56' OF 3/4" PE WATER TUBING, SDR 9,  
200# WP  
2 - 12" X 3/4" TAPPING SADDLES  
2 - 3/4" CORPORATION STOPS  
CONNECT USING NECESSARY FITTINGS

1-10" TAPPING SADDLE AND VALVE  
1-10" X 12" REDUCER  
TAP EXISTING 10" DI WATER MAIN

PROP.  
1220' OF 12" PVC WATER PIPE,  
SDR 21, 200# WP  
1 - 10" TAPPING SADDLE  
1 - 10" X 12" REDUCER  
1 - 10" GATE VALVE AND VALVE  
BOX, 200# WP  
TAP EXISTING  
CONNECT USING NECESSARY FITTINGS

LARRYMORE ORGANIZATION, INC.  
DB 472 PG 670  
DB 472 PG 673  
PC-G SL 35

- NOTES:
1. PROPOSED WATER LINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

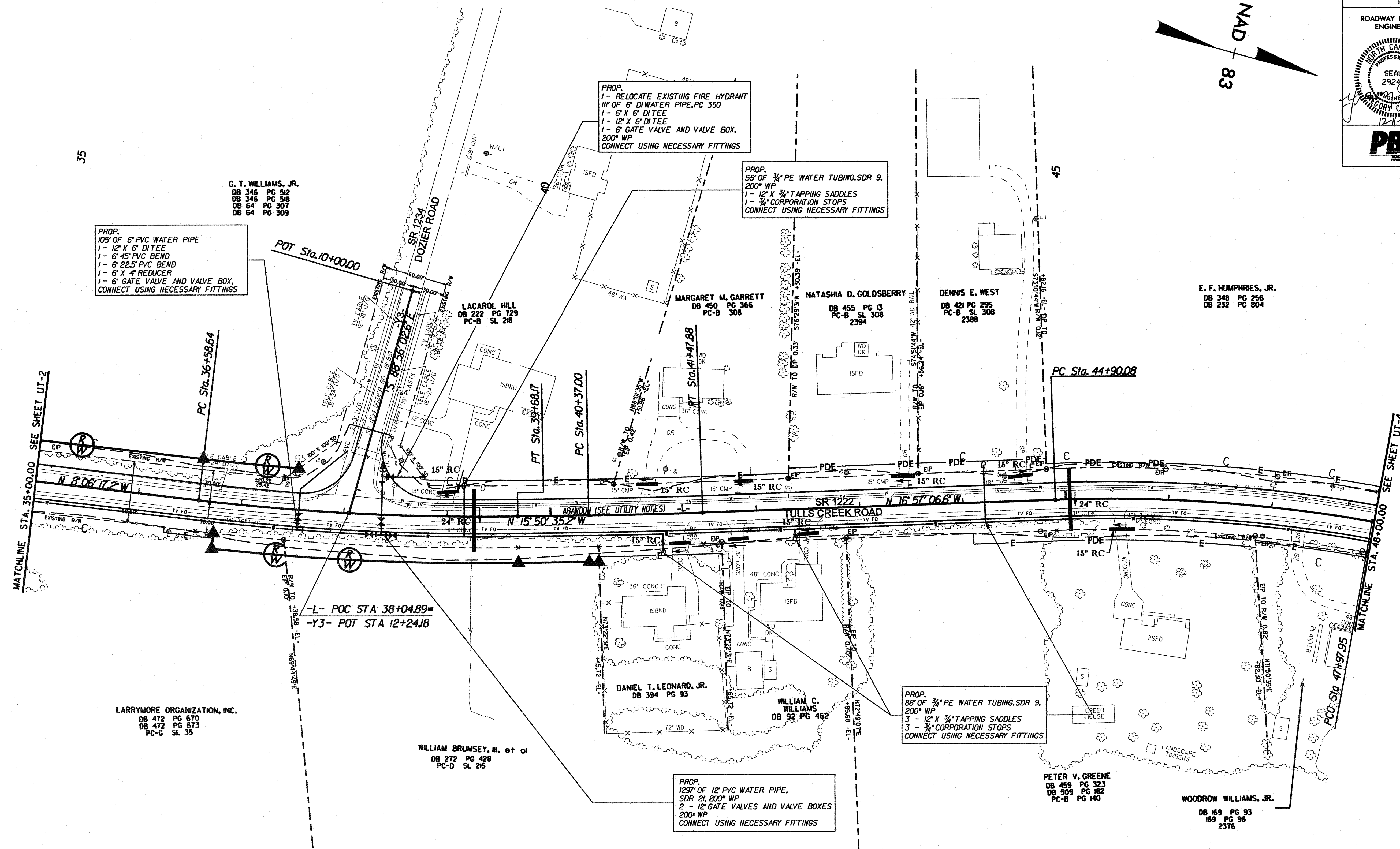
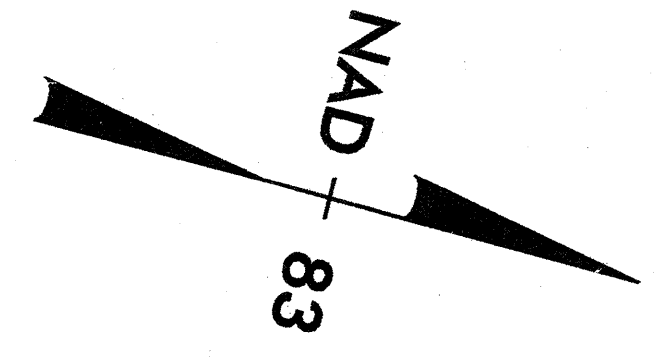


PROP.  
205' OF 8" PVC WATER PIPE,  
SDR 21, 200\* WP  
1 - 8" GATE VALVE AND  
VALVE BOX, 200\* WP  
2 - 45 DEGREE DI MJ BEND  
CONNECT USING NECESSARY FITTINGS

PROP.  
1257' OF 12" PVC WATER PIPE,  
SDR 21, 200\* WP  
1 - 12" X 8" DITEE  
2 - 12" GATE VALVES AND VALVE BOXES  
CONNECT USING NECESSARY FITTINGS

EXISTING 8" W/L WAS NOT LOCATED DURING  
DESIGN. LOCATION AS SHOWN IS  
APPROXIMATE. CONTRACTOR SHALL VERIFY  
PIPE MATERIAL AND LOCATION OF EXISTING  
8" W/L PRIOR TO COMMENCEMENT OF W/L  
CONSTRUCTION ACTIVITIES.

- NOTES:**
1. PROPOSED WATER LINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



**C. T. WILLIAMS, JR.**  
 DB 346 PG 512  
 DB 346 PG 518  
 DB 64 PG 307  
 DB 64 PG 309

**PROF. 105' OF 6" PVC WATER PIPE**  
 1- 12" X 6" DITEE  
 1- 6' 45" PVC BEND  
 1- 6' 22.5" PVC BEND  
 1- 6" X 4" REDUCER  
 1- 6" GATE VALVE AND VALVE BOX.  
 CONNECT USING NECESSARY FITTINGS

POT Sta. 10+00.00

FC Sta. 36+56.64

**LACAROL HILL**  
 DB 222 PG 729  
 PC-B SL 28

PT Sta. 39+68.17

PC Sta. 40+37.00

PT Sta. 41+47.88

**MARGARET M. GARRETT**  
 DB 450 PG 366  
 PC-B 308

**NATASHA D. GOLDSBERRY**  
 DB 455 PG 13  
 PC-B SL 308  
 2394

**DENNIS E. WEST**  
 DB 421 PG 295  
 PC-B SL 308  
 2388

**E. F. HUMPHRIES, JR.**  
 DB 348 PG 256  
 DB 232 PG 804

MATCHLINE STA. 35+00.00 SEE SHEET UT-2

MATCHLINE STA. 48+00.00 SEE SHEET UT-4

**LARRYMORE ORGANIZATION, INC.**  
 DB 472 PG 670  
 DB 472 PG 673  
 PC-C SL 35

**WILLIAM BRUMSEY, III, et al**  
 DB 272 PG 428  
 PC-D SL 215

**DANIEL T. LEONARD, JR.**  
 DB 394 PG 93

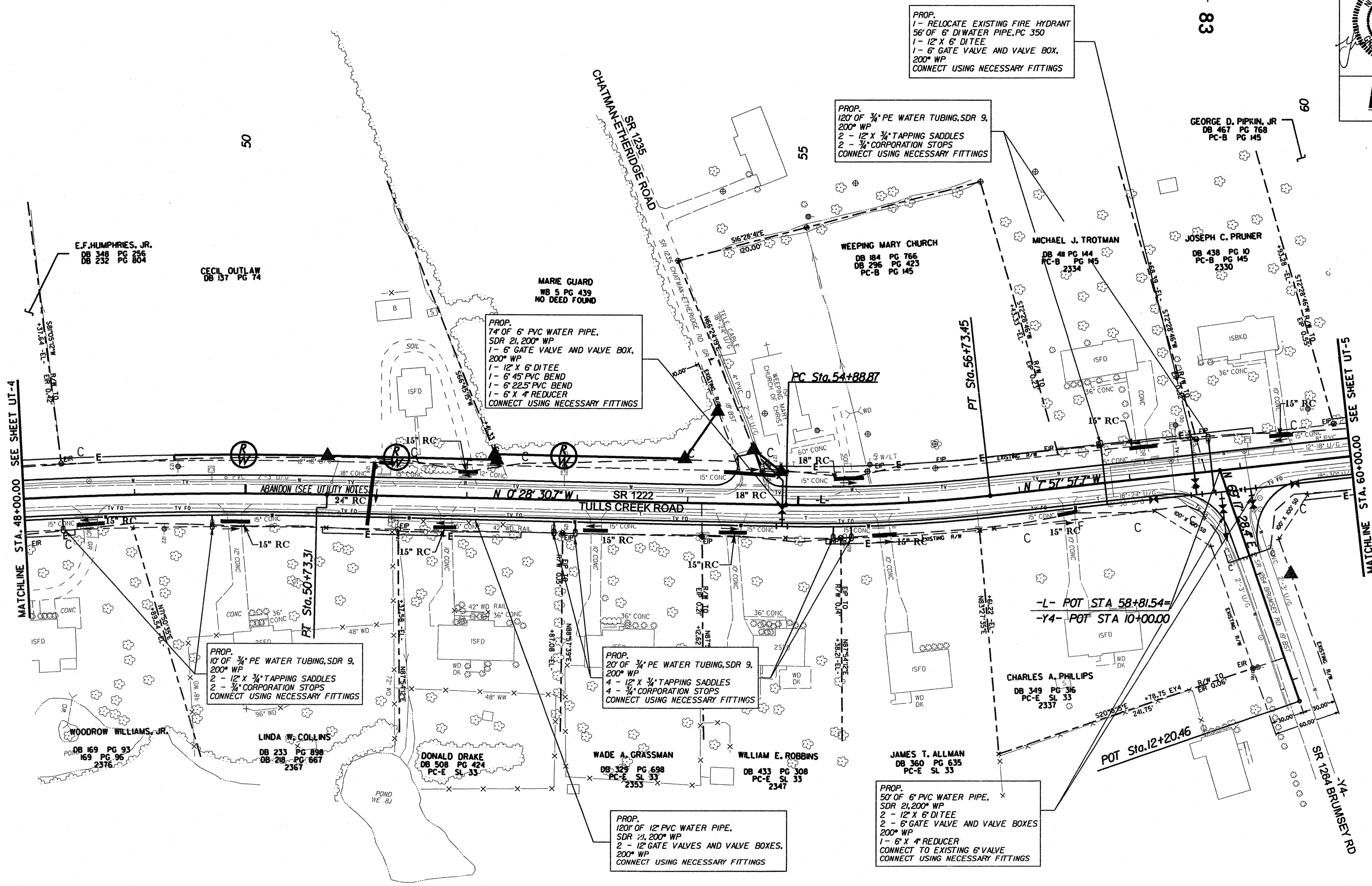
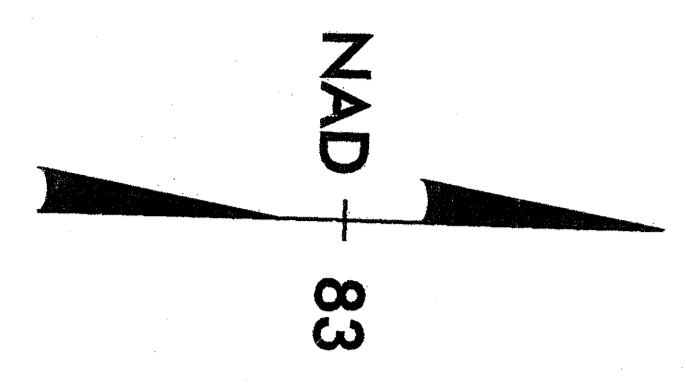
**WILLIAM C. WILLIAMS**  
 DB 92 PG 462

**PROF. 88' OF 3/4" PE WATER TUBING, SDR 9,**  
 200" WP  
 3- 12" X 3/4" TAPPING SADDLES  
 3- 3/4" CORPORATION STOPS  
 CONNECT USING NECESSARY FITTINGS

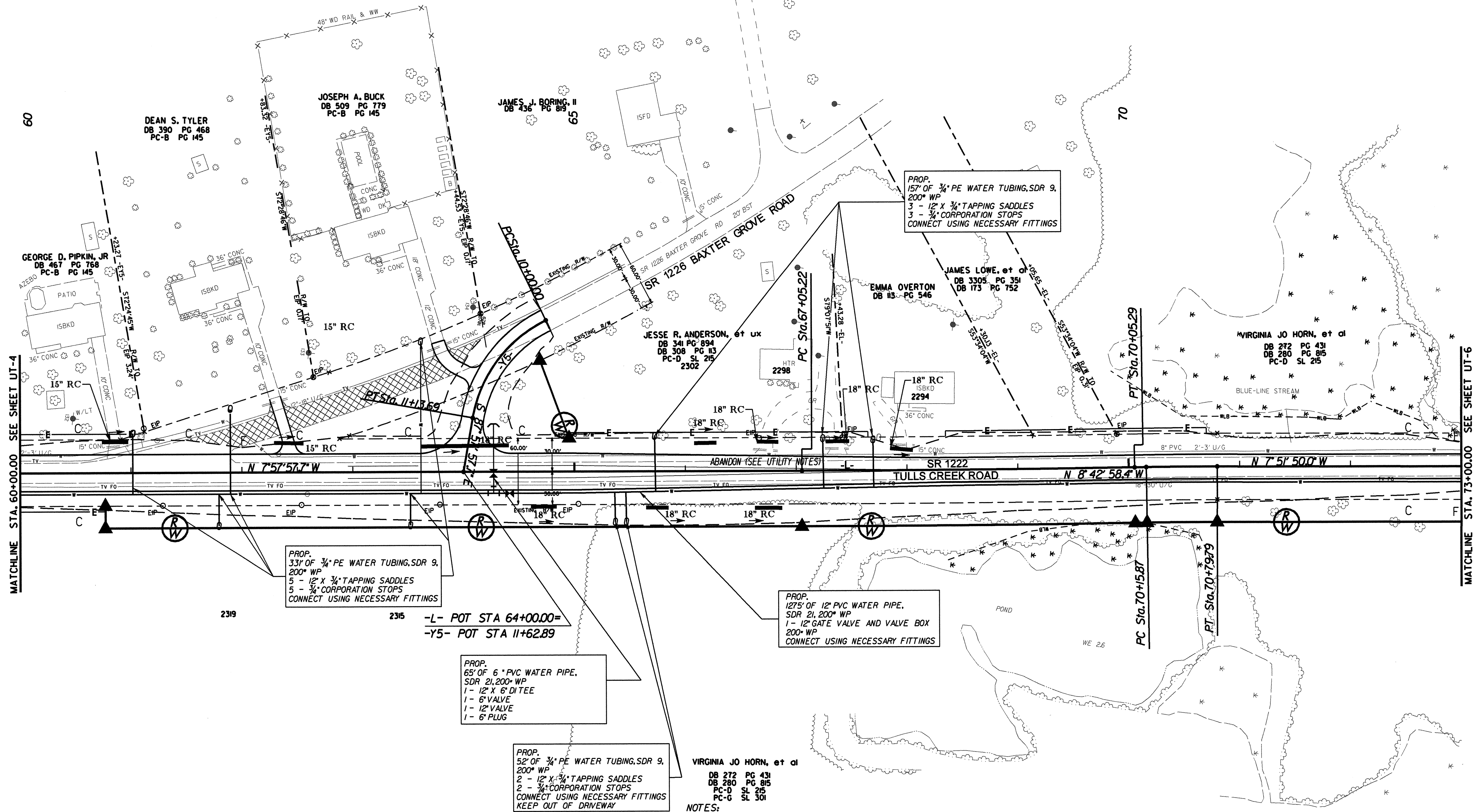
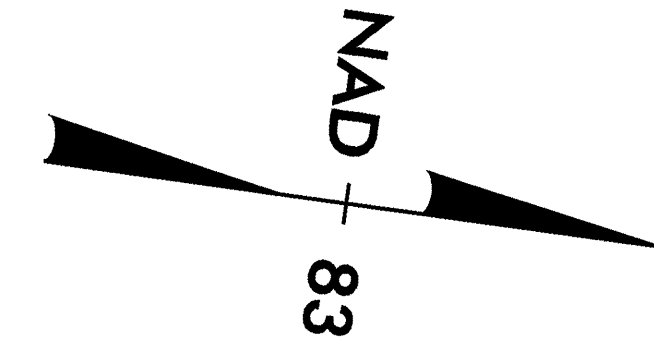
**PETER V. GREENE**  
 DB 459 PG 323  
 DB 509 PG 182  
 PC-B PG 140

**WOODROW WILLIAMS, JR.**  
 DB 169 PG 93  
 169 PG 96  
 2376

- NOTES:**
1. PROPOSED WATER LINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



- NOTES:**
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  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



MATCHLINE STA. 60+00.00 SEE SHEET UT-4

MATCHLINE STA. 73+00.00 SEE SHEET UT-6

PROP.  
331' OF 3/4" PE WATER TUBING, SDR 9,  
200" WP  
5 - 12" X 3/4" TAPPING SADDLES  
5 - 3/4" CORPORATION STOPS  
CONNECT USING NECESSARY FITTINGS

-L- POT STA 64+00.00=  
-Y5- POT STA 11+62.89

PROP.  
65' OF 6" PVC WATER PIPE,  
SDR 21, 200" WP  
1 - 12" X 6" DITTEE  
1 - 6" VALVE  
1 - 12" VALVE  
1 - 6" PLUG

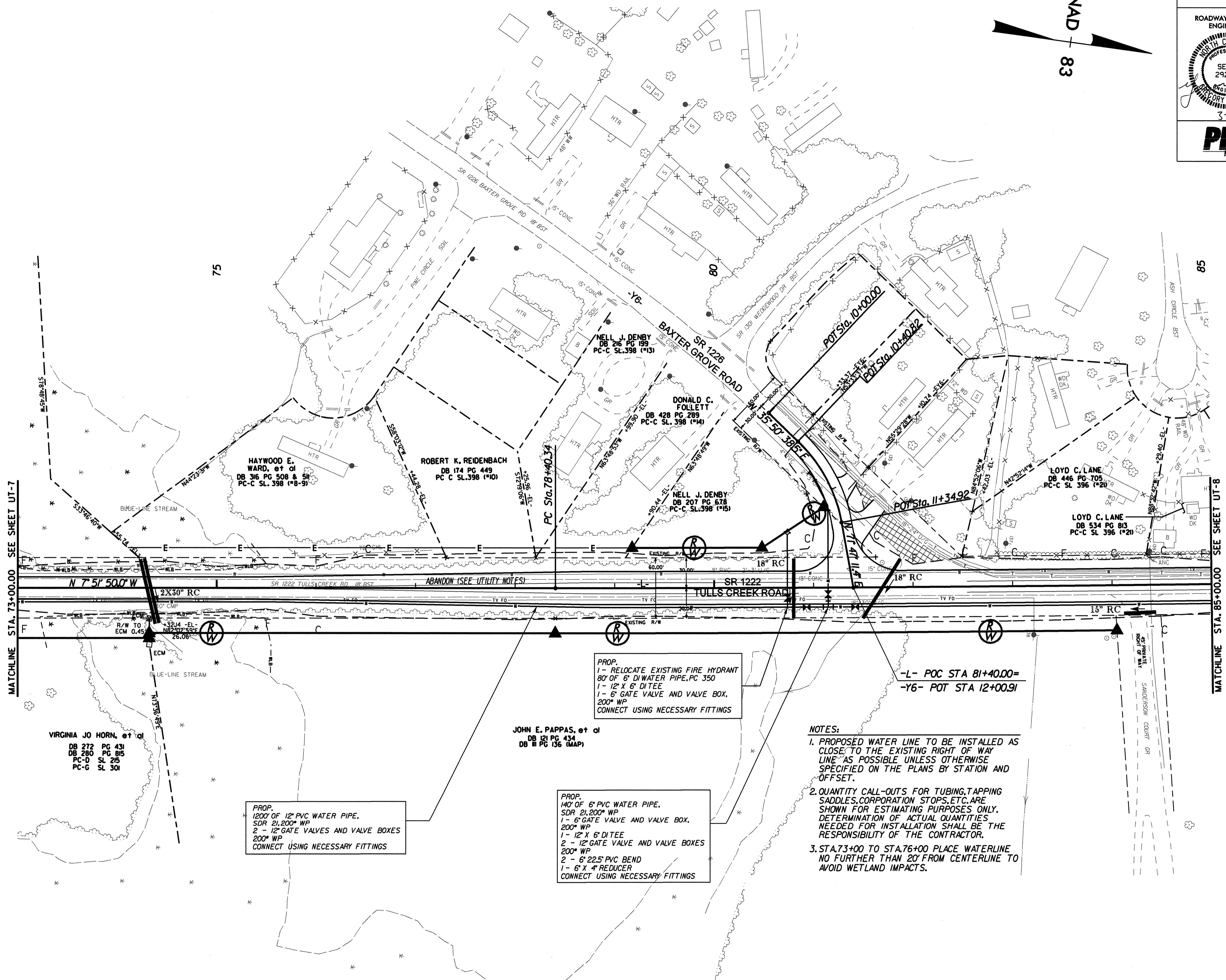
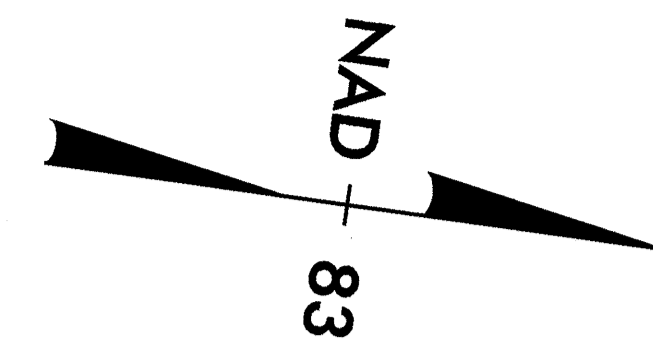
PROP.  
52' OF 3/4" PE WATER TUBING, SDR 9,  
200" WP  
2 - 12" X 3/4" TAPPING SADDLES  
2 - 3/4" CORPORATION STOPS  
CONNECT USING NECESSARY FITTINGS  
KEEP OUT OF DRIVEWAY

PROP.  
1275' OF 12" PVC WATER PIPE,  
SDR 21, 200" WP  
1 - 12" GATE VALVE AND VALVE BOX  
200" WP  
CONNECT USING NECESSARY FITTINGS

PROP.  
157' OF 3/4" PE WATER TUBING, SDR 9,  
200" WP  
3 - 12" X 3/4" TAPPING SADDLES  
3 - 3/4" CORPORATION STOPS  
CONNECT USING NECESSARY FITTINGS

VIRGINIA JO HORN, et al  
DB 272 PG 431  
DB 280 PG 815  
PC-D SL 215  
PC-G SL 301

- NOTES:
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  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



MATCHLINE STA. 73+00.00 SEE SHEET UT-7

MATCHLINE STA. 85+00.00 SEE SHEET UT-8

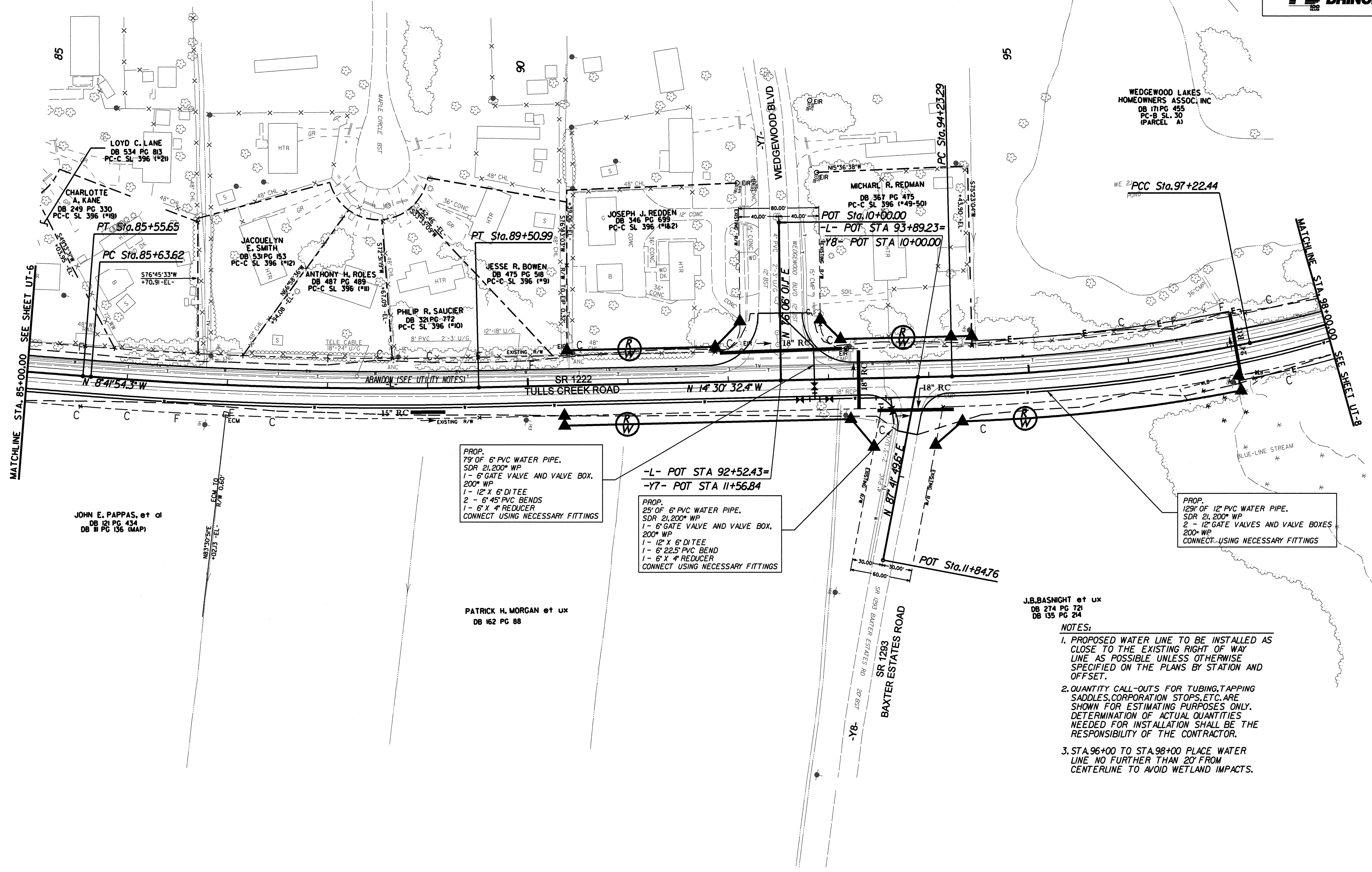
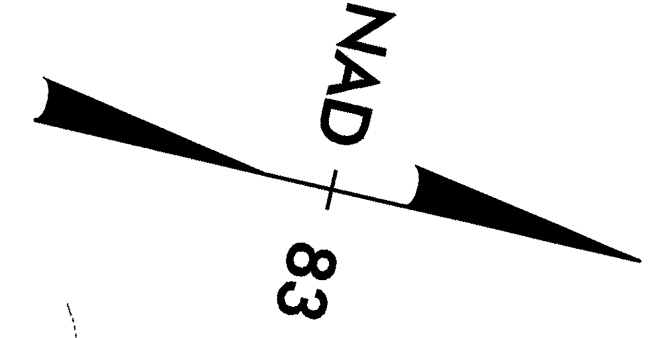
PROP.  
1200' OF 12" PVC WATER PIPE,  
SDR 21, 200' WP  
2 - 12" GATE VALVES AND VALVE BOXES  
200' WP  
CONNECT USING NECESSARY FITTINGS

PROP.  
140' OF 6" PVC WATER PIPE,  
SDR 21, 200' WP  
1 - 6" GATE VALVE AND VALVE BOX,  
200' WP  
1 - 12" X 6" DITEE  
2 - 12" GATE VALVE AND VALVE BOXES  
200' WP  
2 - 6" 22.5' PVC BEND  
1 - 6" X 4" REDUCER  
CONNECT USING NECESSARY FITTINGS

PROP.  
1 - RELOCATE EXISTING FIRE HYDRANT  
80' OF 6" DI WATER PIPE, PC 350  
1 - 12" X 6" DITEE  
1 - 6" GATE VALVE AND VALVE BOX,  
200' WP  
CONNECT USING NECESSARY FITTINGS

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  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
  3. STA. 73+00 TO STA. 76+00 PLACE WATERLINE NO FURTHER THAN 20' FROM CENTERLINE TO AVOID WETLAND IMPACTS.

-L- POC STA 81+40.00=  
-Y6- POT STA 12+00.91



PROP.  
79' OF 6" PVC WATER PIPE,  
SDR 21,200\* WP  
1 - 6" GATE VALVE AND VALVE BOX,  
200" WP  
1 - 12" X 6" D TEE  
2 - 6" 45° PVC BENDS  
1 - 6" X 4" REDUCER  
CONNECT USING NECESSARY FITTINGS

-L- POT STA 92+52.43=  
-Y7- POT STA 11+56.84

PROP.  
25' OF 6" PVC WATER PIPE,  
SDR 21,200\* WP  
1 - 6" GATE VALVE AND VALVE BOX,  
200" WP  
1 - 12" X 6" D TEE  
1 - 6" 22.5° PVC BEND  
1 - 6" X 4" REDUCER  
CONNECT USING NECESSARY FITTINGS

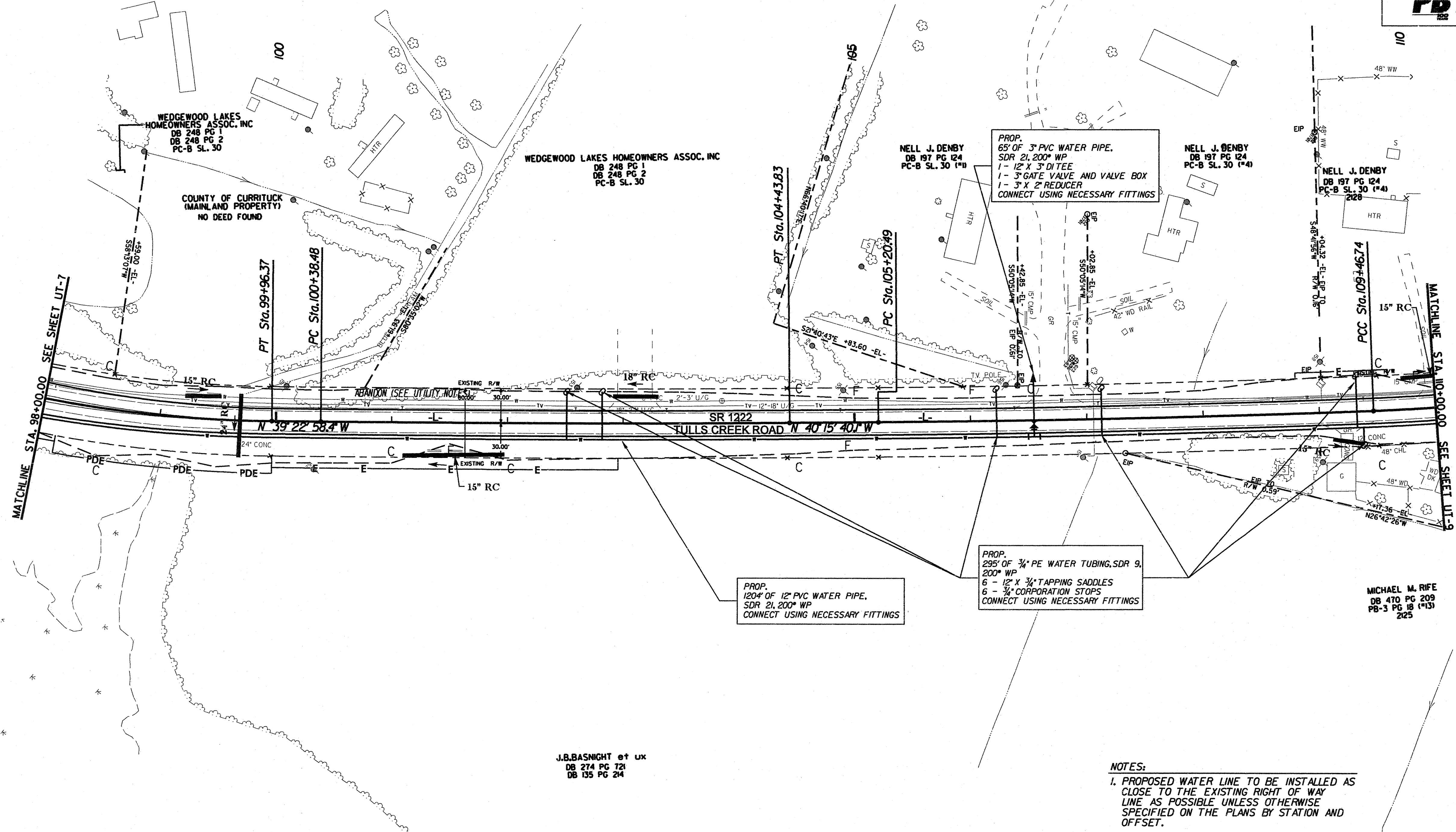
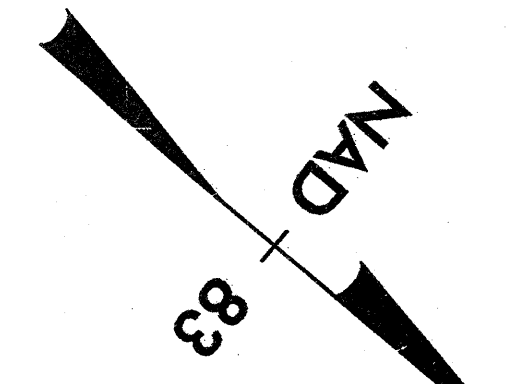
PROP.  
129' OF 12" PVC WATER PIPE,  
SDR 21,200\* WP  
2 - 12" GATE VALVES AND VALVE BOXES,  
200" WP  
CONNECT USING NECESSARY FITTINGS

JOHN E. PAPPAS et al  
DB 121 PG 434  
DB 11 PG 136 (MAP)

PATRICK H. MORGAN et ux  
DB 162 PG 88

J.B. BASNIGHT et ux  
DB 274 PG 721  
DB 135 PG 214

- NOTES:
1. PROPOSED WATER LINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
  3. STA. 96+00 TO STA. 98+00 PLACE WATER LINE NO FURTHER THAN 20' FROM CENTERLINE TO AVOID WETLAND IMPACTS.



PROP.  
65' OF 3" PVC WATER PIPE,  
SDR 21, 200' WP  
1 - 12" X 3" DITEE  
1 - 3" GATE VALVE AND VALVE BOX  
1 - 3" X 2" REDUCER  
CONNECT USING NECESSARY FITTINGS

PROP.  
1204' OF 12" PVC WATER PIPE,  
SDR 21, 200' WP  
CONNECT USING NECESSARY FITTINGS

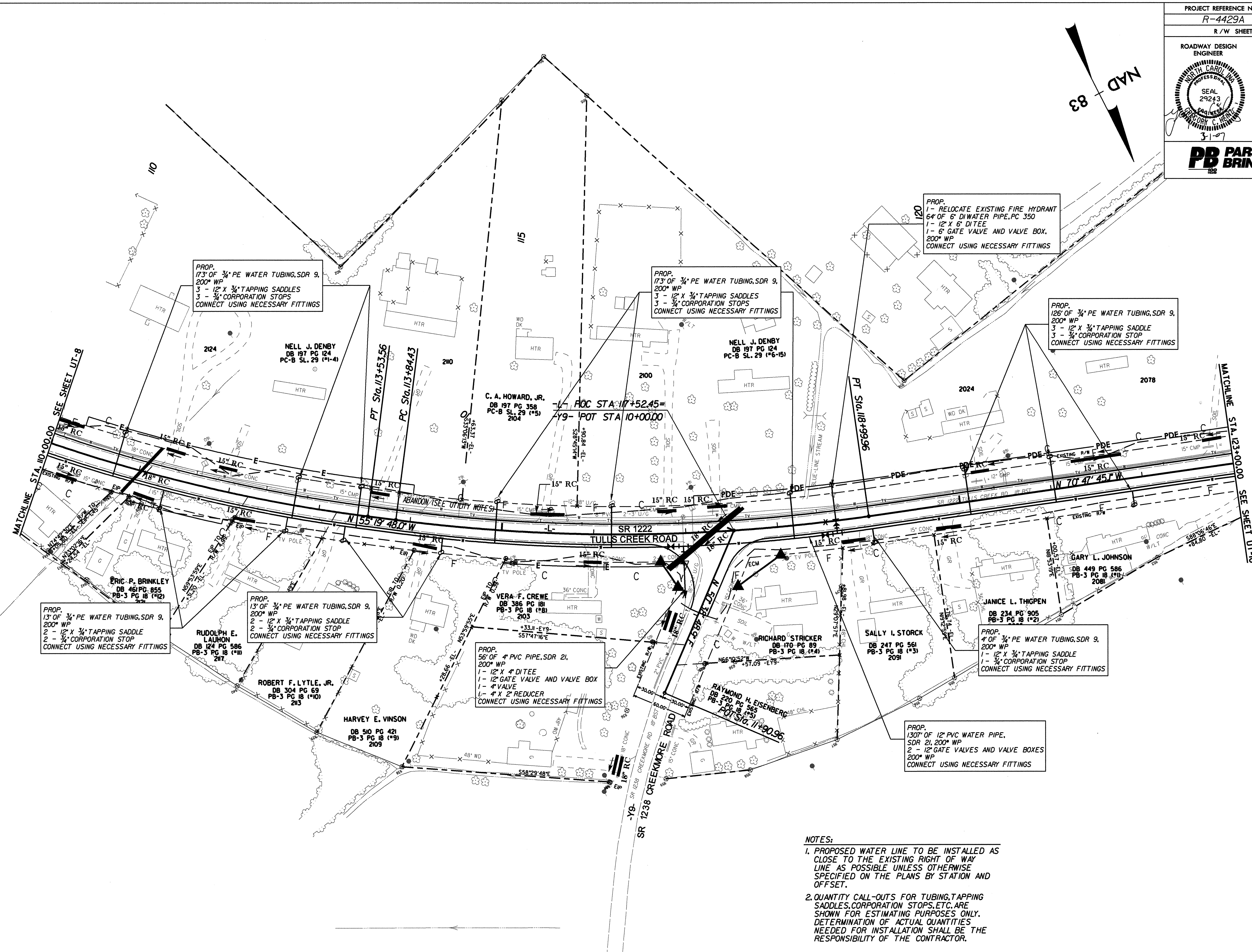
PROP.  
295' OF 3/4" PE WATER TUBING, SDR 9,  
200' WP  
6 - 12" X 3/4" TAPPING SADDLES  
6 - 3/4" CORPORATION STOPS  
CONNECT USING NECESSARY FITTINGS

MICHAEL M. RIFE  
DB 470 PG 209  
PB-3 PG 18 (\*13)  
225

J.B.BASNIGHT et ux  
DB 274 PG 721  
DB 135 PG 214

- NOTES:
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  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.





PROP.  
173' OF 3/4" PE WATER TUBING, SDR 9,  
200" WP  
3 - 12" X 3/4" TAPPING SADDLES  
3 - 3/4" CORPORATION STOPS  
CONNECT USING NECESSARY FITTINGS

PROP.  
173' OF 3/4" PE WATER TUBING, SDR 9,  
200" WP  
3 - 12" X 3/4" TAPPING SADDLES  
3 - 3/4" CORPORATION STOPS  
CONNECT USING NECESSARY FITTINGS

PROP.  
1 - RELOCATE EXISTING FIRE HYDRANT  
64' OF 6" DI WATER PIPE, PC 350  
1 - 12" X 6" DITEE  
1 - 6" GATE VALVE AND VALVE BOX,  
200" WP  
CONNECT USING NECESSARY FITTINGS

PROP.  
126' OF 3/4" PE WATER TUBING, SDR 9,  
200" WP  
3 - 12" X 3/4" TAPPING SADDLE  
3 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

PROP.  
13' OF 3/4" PE WATER TUBING, SDR 9,  
200" WP  
2 - 12" X 3/4" TAPPING SADDLE  
2 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

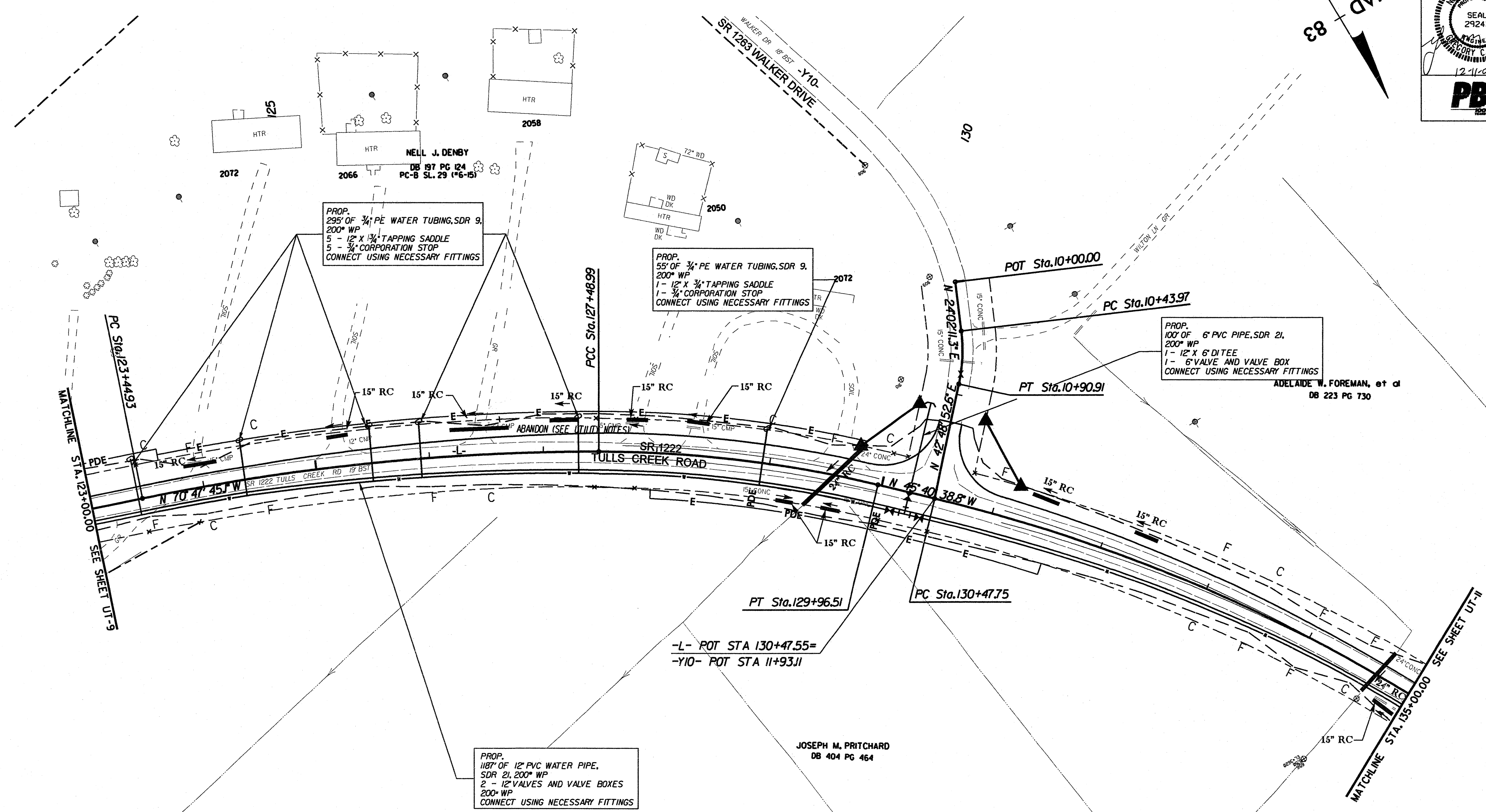
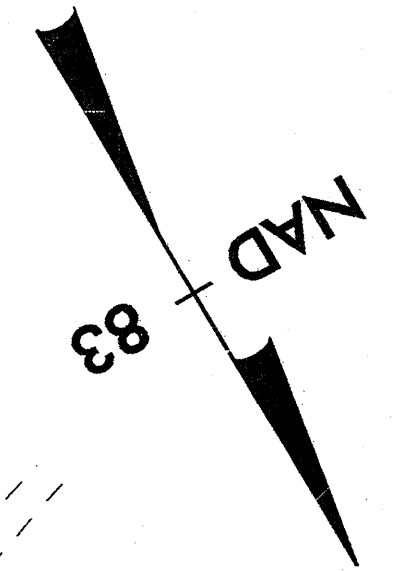
PROP.  
13' OF 3/4" PE WATER TUBING, SDR 9,  
200" WP  
2 - 12" X 3/4" TAPPING SADDLE  
2 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

PROP.  
56' OF 4" PVC PIPE, SDR 21,  
200" WP  
1 - 12" X 4" DITEE  
1 - 12" GATE VALVE AND VALVE BOX  
1 - 4" VALVE  
1 - 4" X 2" REDUCER  
CONNECT USING NECESSARY FITTINGS

PROP.  
4' OF 3/4" PE WATER TUBING, SDR 9,  
200" WP  
1 - 12" X 3/4" TAPPING SADDLE  
1 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

PROP.  
1307' OF 12" PVC WATER PIPE,  
SDR 21, 200" WP  
2 - 12" GATE VALVES AND VALVE BOXES  
200" WP  
CONNECT USING NECESSARY FITTINGS

- NOTES:**
1. PROPOSED WATER LINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



PROP.  
295' OF 3/4" PE WATER TUBING, SDR 9,  
200\* WP  
5 - 12" X 3/4" TAPPING SADDLE  
5 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

PROP.  
55' OF 3/4" PE WATER TUBING, SDR 9,  
200\* WP  
1 - 12" X 3/4" TAPPING SADDLE  
1 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

PROP.  
100' OF 6" PVC PIPE, SDR 21,  
200\* WP  
1 - 12" X 6" DITEE  
1 - 6" VALVE AND VALVE BOX  
CONNECT USING NECESSARY FITTINGS

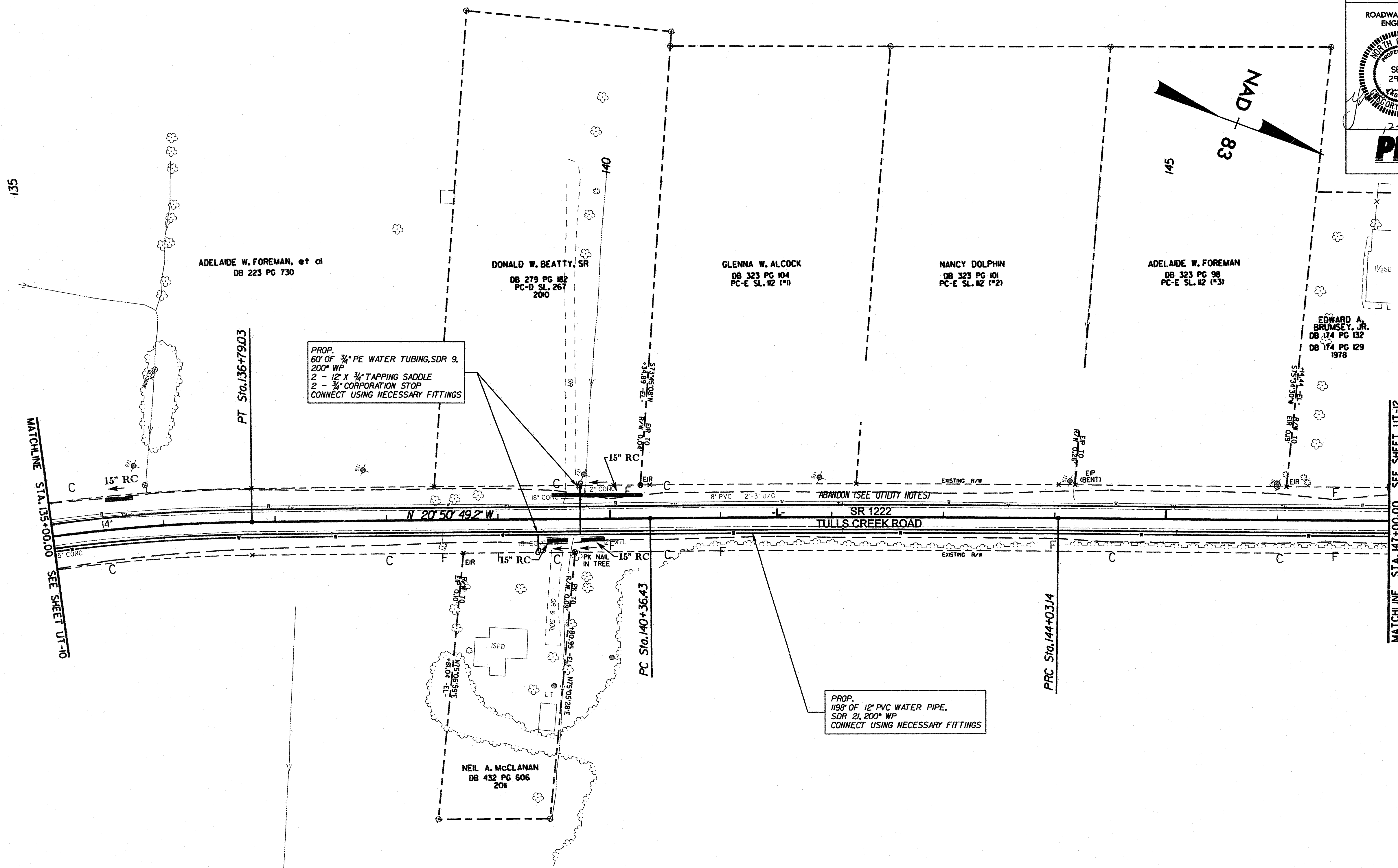
PROP.  
1187' OF 12" PVC WATER PIPE,  
SDR 21, 200\* WP  
2 - 12" VALVES AND VALVE BOXES  
200\* WP  
CONNECT USING NECESSARY FITTINGS

ADELAIDE W. FOREMAN, et al  
DB 223 PG 730

JOSEPH M. PRITCHARD  
DB 404 PG 464

-L- POT STA 130+47.55=  
-Y10- POT STA 11+93.11

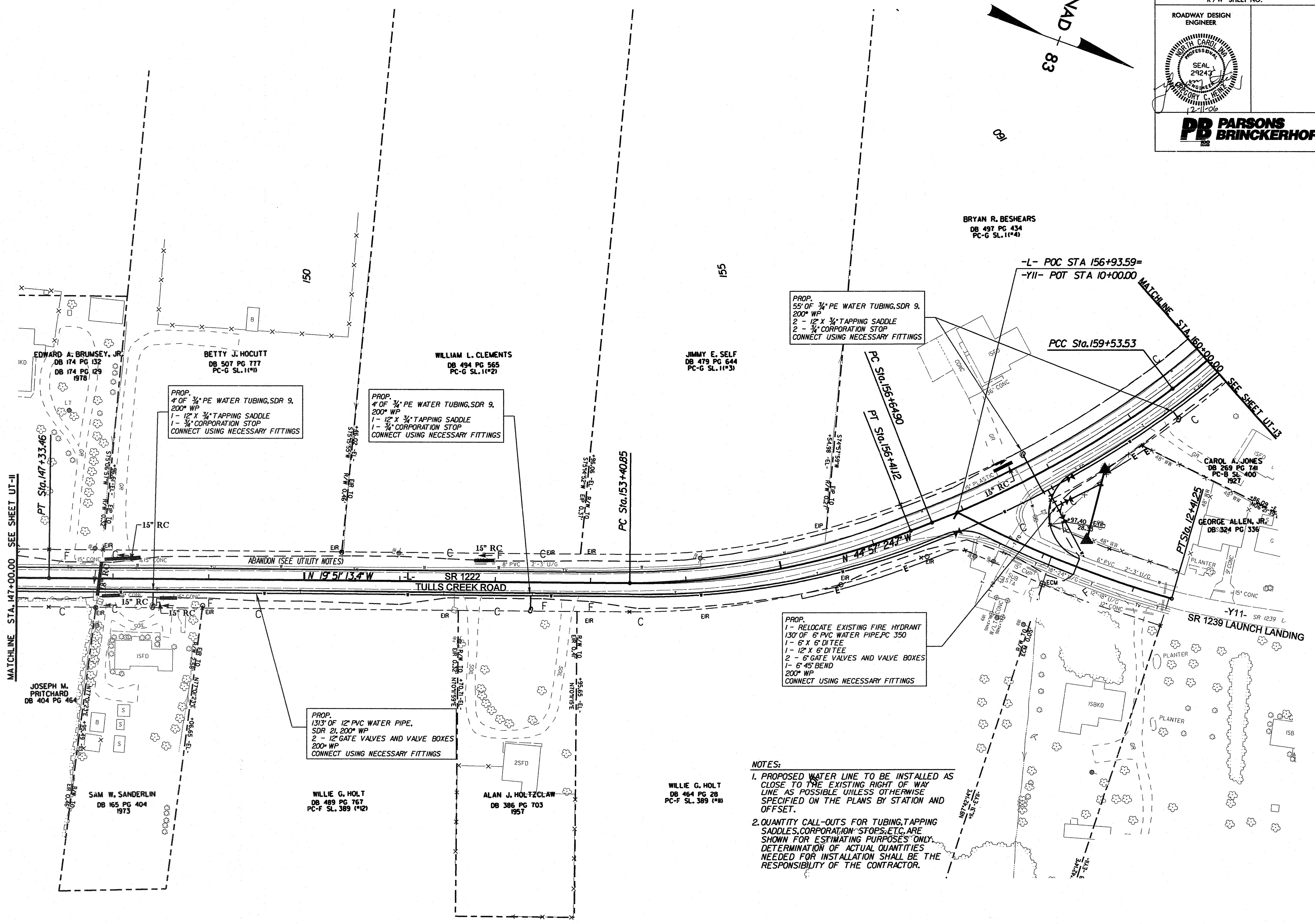
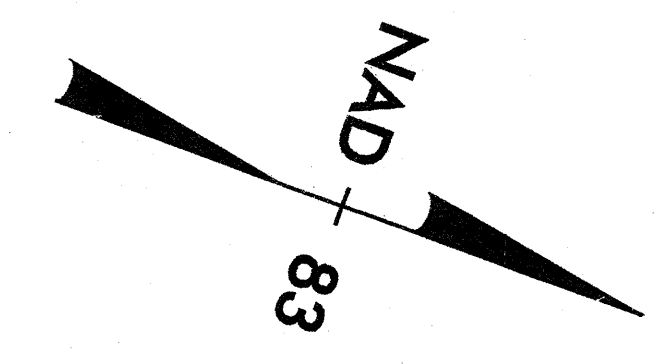
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PROP.  
60' OF 3/4" PE WATER TUBING, SDR 9,  
200' WP  
2 - 12" X 3/4" TAPPING SADDLE  
2 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

PROP.  
1198' OF 12" PVC WATER PIPE,  
SDR 21, 200' WP  
CONNECT USING NECESSARY FITTINGS

- NOTES:**
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PROP.  
4' OF 3/4" PE WATER TUBING, SDR 9,  
200' WP  
1 - 12" X 3/4" TAPPING SADDLE  
1 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

PROP.  
4' OF 3/4" PE WATER TUBING, SDR 9,  
200' WP  
1 - 12" X 3/4" TAPPING SADDLE  
1 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

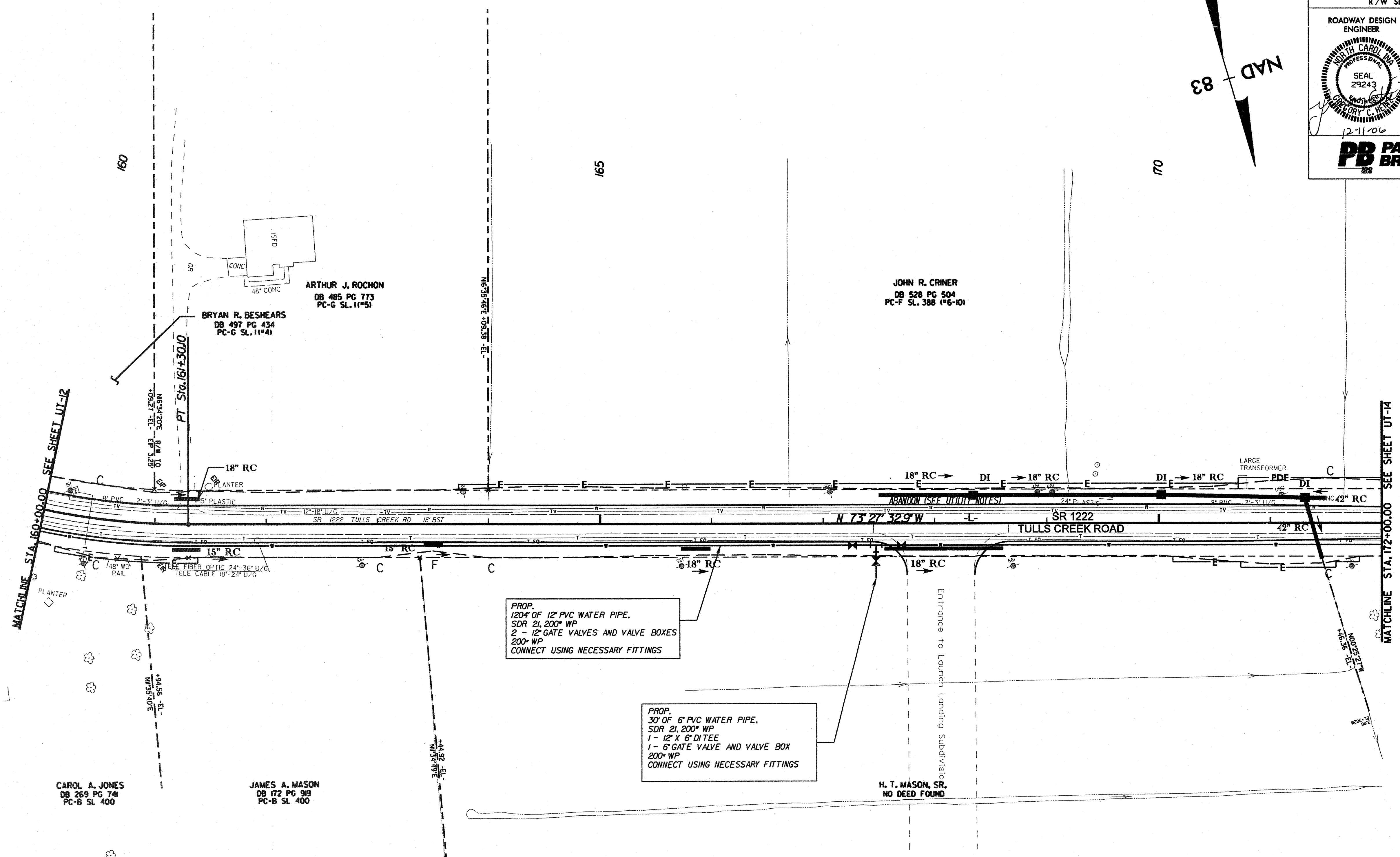
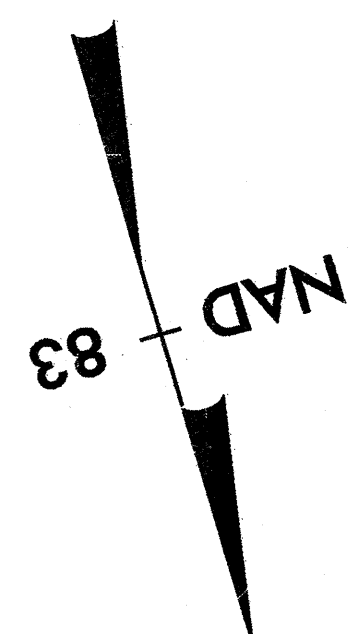
PROP.  
55' OF 3/4" PE WATER TUBING, SDR 9,  
200' WP  
2 - 12" X 3/4" TAPPING SADDLE  
2 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

PROP.  
1 - RELOCATE EXISTING FIRE HYDRANT  
130' OF 6" PVC WATER PIPE, PC 350  
1 - 6" X 6" DITEE  
1 - 12" X 6" DITEE  
2 - 6" GATE VALVES AND VALVE BOXES  
1 - 6" 45° BEND  
200' WP  
CONNECT USING NECESSARY FITTINGS

PROP.  
1313' OF 12" PVC WATER PIPE,  
SDR 24, 200' WP  
2 - 12" GATE VALVES AND VALVE BOXES  
200' WP  
CONNECT USING NECESSARY FITTINGS

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PROJECT REFERENCE NO. R-4429A	SHEET NO. UT-13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	

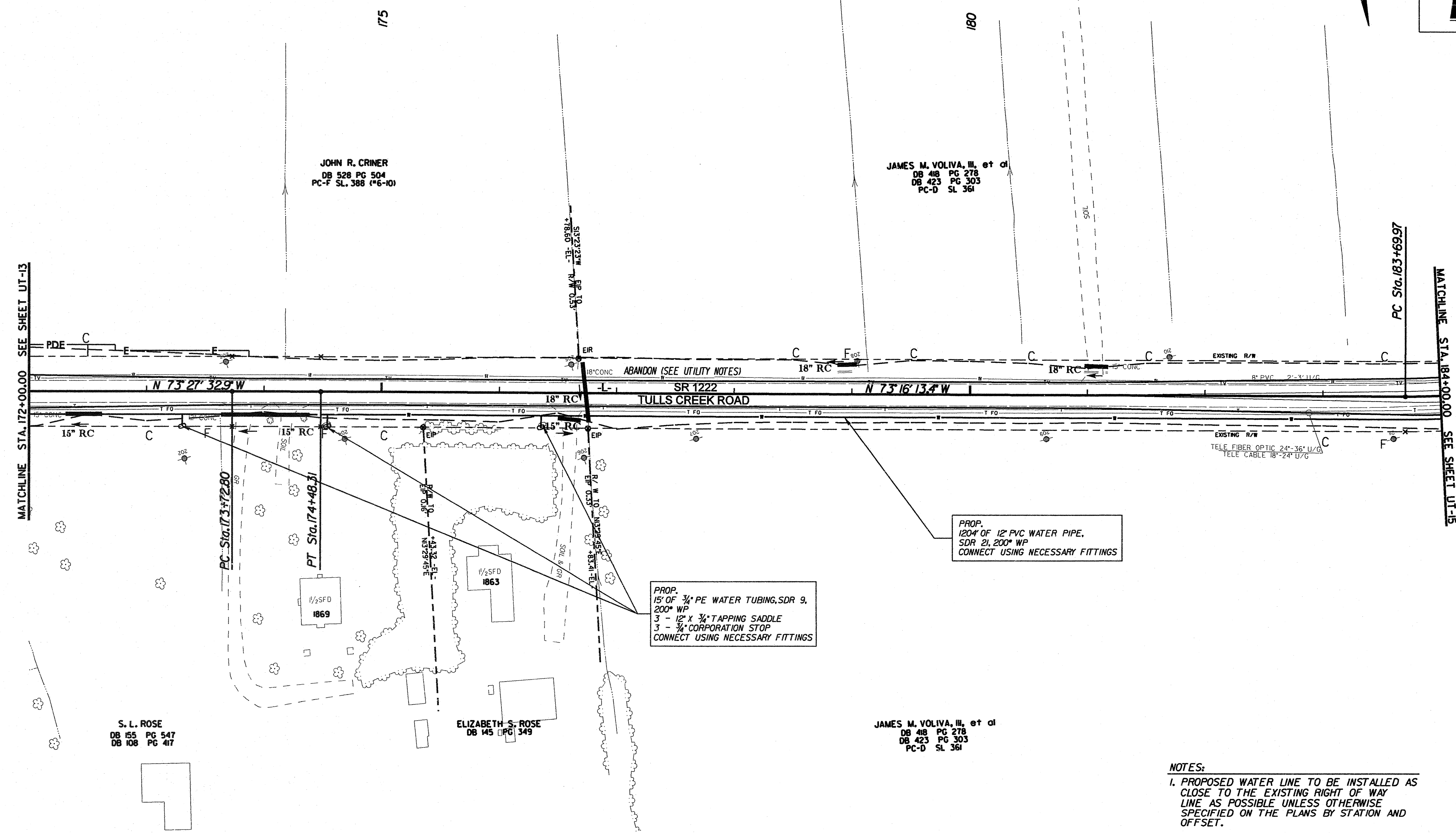
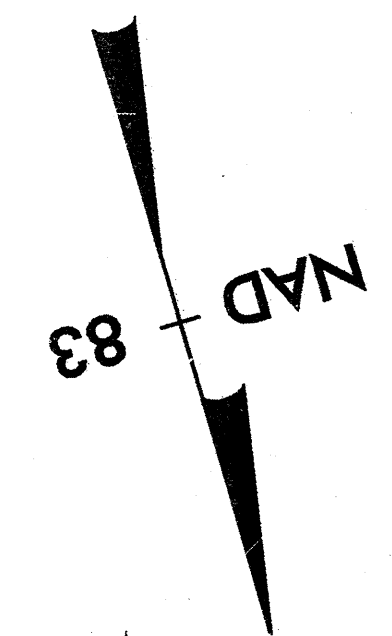


PROP.  
1204' OF 12" PVC WATER PIPE,  
SDR 21, 200" WP  
2 - 12" GATE VALVES AND VALVE BOXES  
200' WP  
CONNECT USING NECESSARY FITTINGS

PROP.  
30' OF 6" PVC WATER PIPE,  
SDR 21, 200" WP  
1 - 12" X 6" DI TEE  
1 - 6" GATE VALVE AND VALVE BOX  
200' WP  
CONNECT USING NECESSARY FITTINGS

H. T. MASON, SR.  
NO DEED FOUND

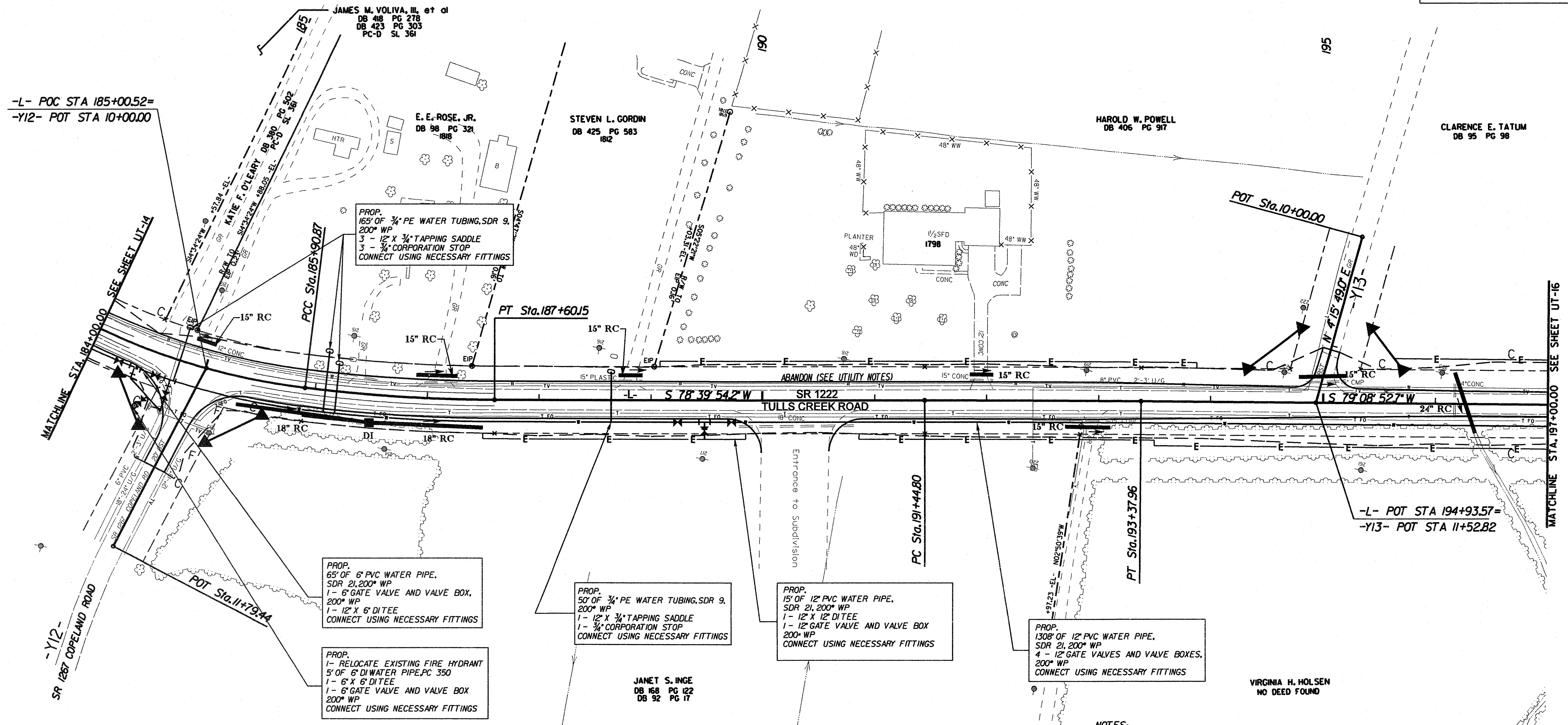
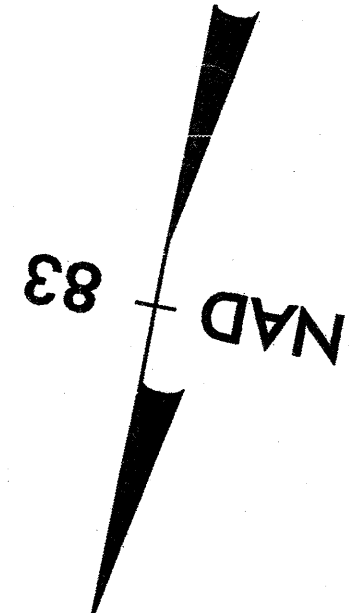
- NOTES:**
1. PROPOSED WATER LINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



PROP.  
15' OF 3/4" PE WATER TUBING, SDR 9,  
200' WP  
3 - 12" X 3/4" TAPPING SADDLE  
3 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

PROP.  
1204' OF 12" PVC WATER PIPE,  
SDR 21, 200' WP  
CONNECT USING NECESSARY FITTINGS

- NOTES:**
1. PROPOSED WATER LINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



-L- POC STA 185+00.52=  
-Y12- POT STA 10+00.00

MATCHLINE STA. 184+00.00 SEE SHEET UT-14

-Y12-  
SR 1287 COPELAND ROAD  
POT STA. 11+79.44

PROP.  
165' OF 3/4" PE WATER TUBING, SDR 9,  
200" WP  
3 - 12" X 3/4" TAPPING SADDLE  
3 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

PROP.  
65' OF 6" PVC WATER PIPE,  
SDR 21, 200" WP  
1 - 6" GATE VALVE AND VALVE BOX,  
200" WP  
1 - 12" X 6" DITEE  
CONNECT USING NECESSARY FITTINGS

PROP.  
1 - RELOCATE EXISTING FIRE HYDRANT  
5' OF 6" DI WATER PIPE, PC 350  
1 - 6" X 6" DITEE  
1 - 6" GATE VALVE AND VALVE BOX  
200" WP  
CONNECT USING NECESSARY FITTINGS

PROP.  
50' OF 3/4" PE WATER TUBING, SDR 9,  
200" WP  
1 - 12" X 3/4" TAPPING SADDLE  
1 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

PROP.  
15' OF 12" PVC WATER PIPE,  
SDR 21, 200" WP  
1 - 12" X 12" DITEE  
1 - 12" GATE VALVE AND VALVE BOX  
200" WP  
CONNECT USING NECESSARY FITTINGS

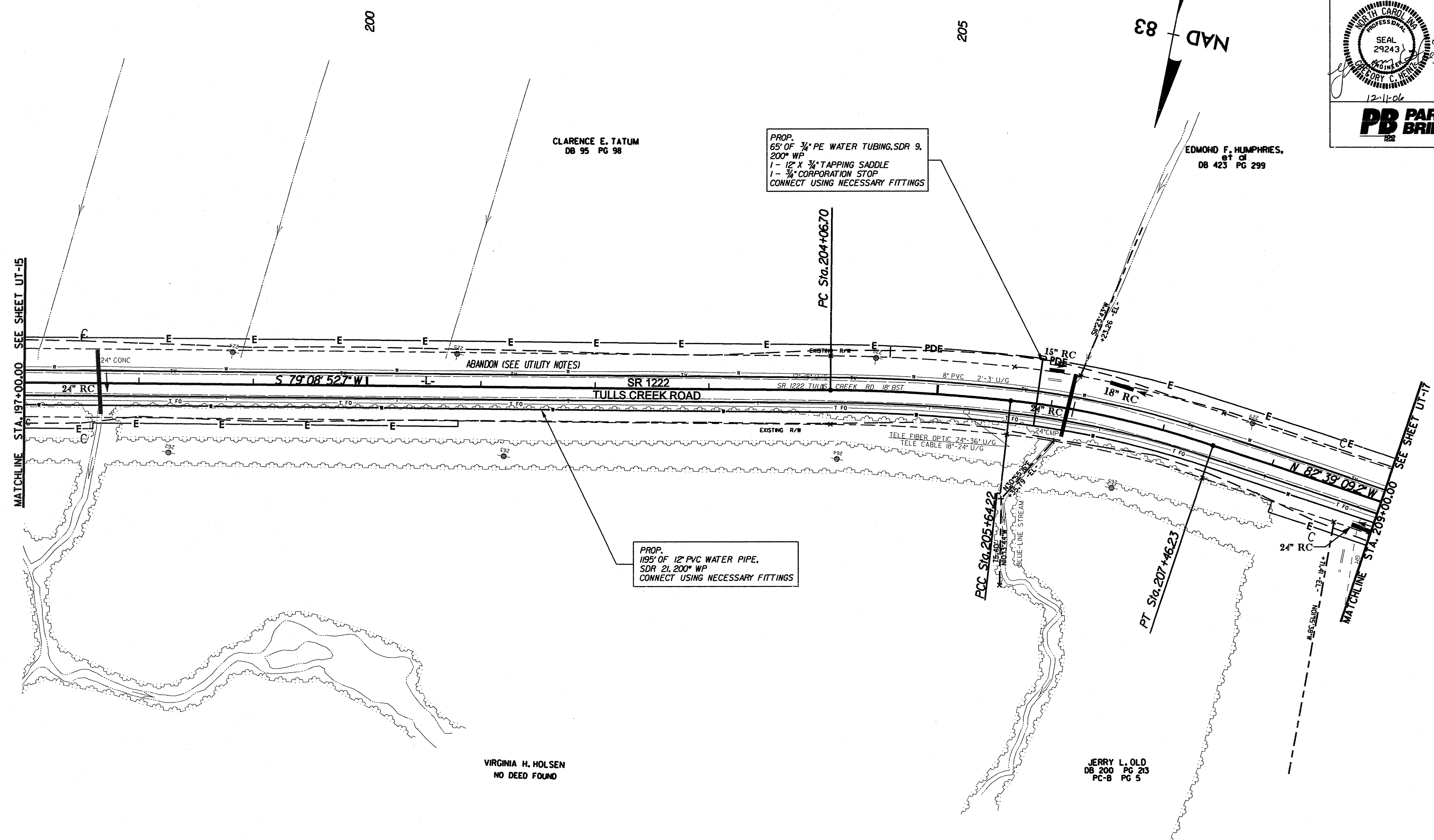
PROP.  
1308' OF 12" PVC WATER PIPE,  
SDR 21, 200" WP  
4 - 12" GATE VALVES AND VALVE BOXES,  
200" WP  
CONNECT USING NECESSARY FITTINGS

JANET S. INGE  
DB 168 PG 122  
DB 92 PG 17

VIRGINIA H. HOLSEN  
NO DEED FOUND

- NOTES:
1. PROPOSED WATER LINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

PROJECT REFERENCE NO. R-4429A	SHEET NO. UT-16
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	

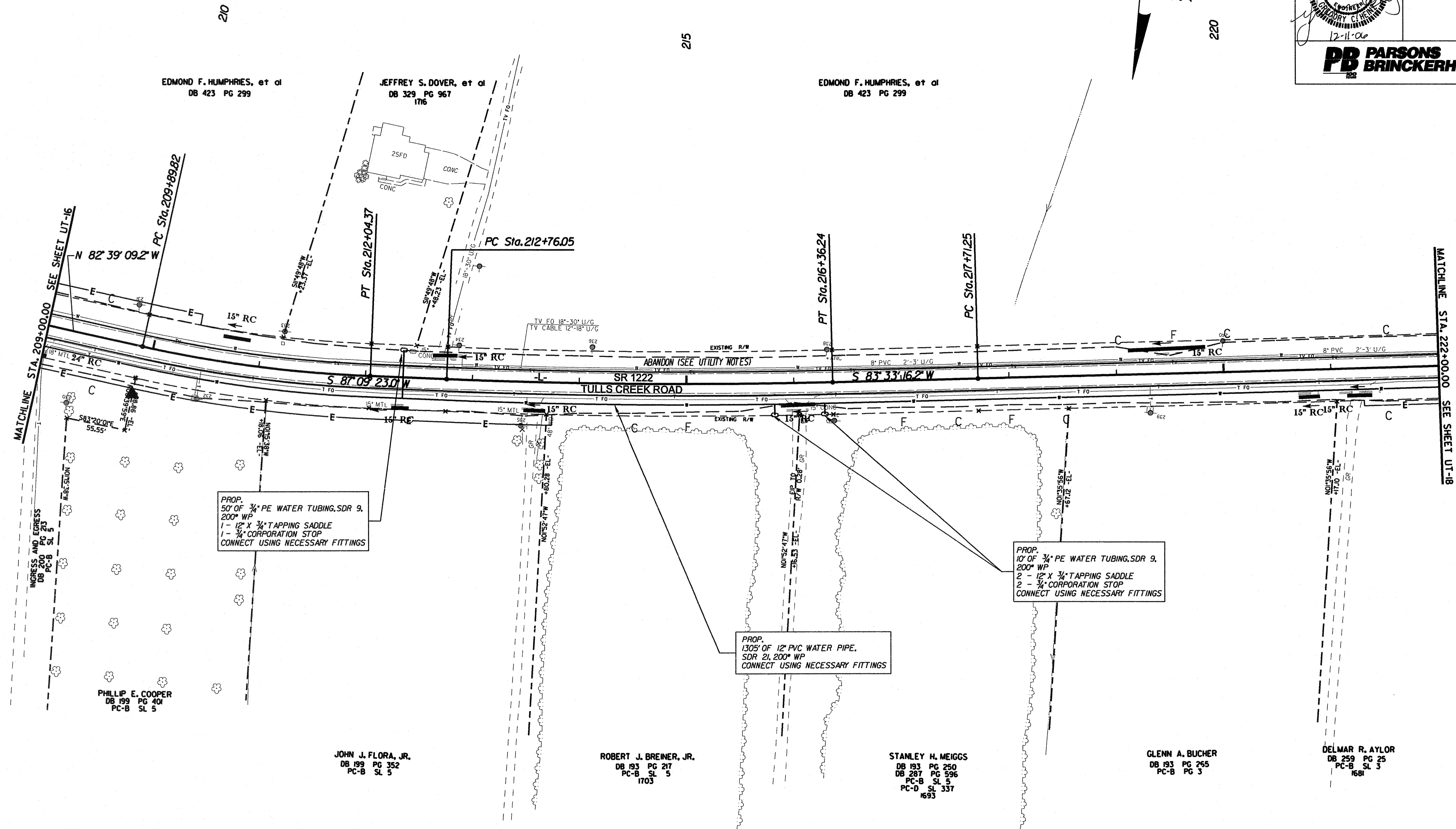
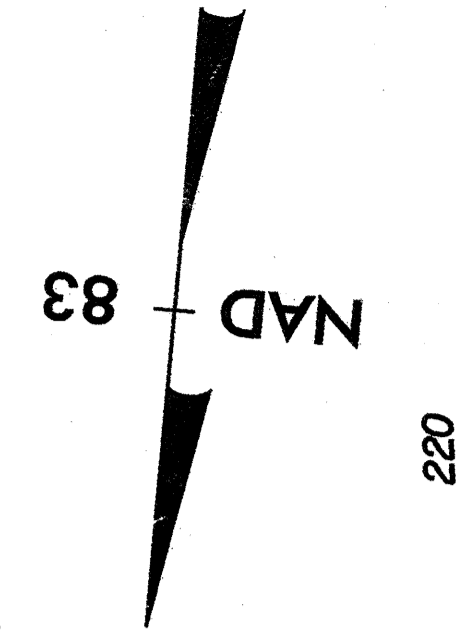


PROP.  
65' OF 3/4" PE WATER TUBING, SDR 9,  
200" WP  
1 - 12" X 3/4" TAPPING SADDLE  
1 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

PROP.  
185' OF 12" PVC WATER PIPE,  
SDR 21, 200" WP  
CONNECT USING NECESSARY FITTINGS

- NOTES:**
1. PROPOSED WATER LINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



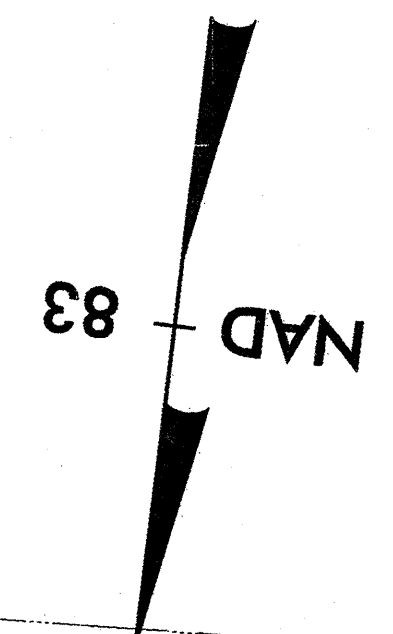


PROP.  
50' OF 3/4\"/>

PROP.  
10' OF 3/4\"/>

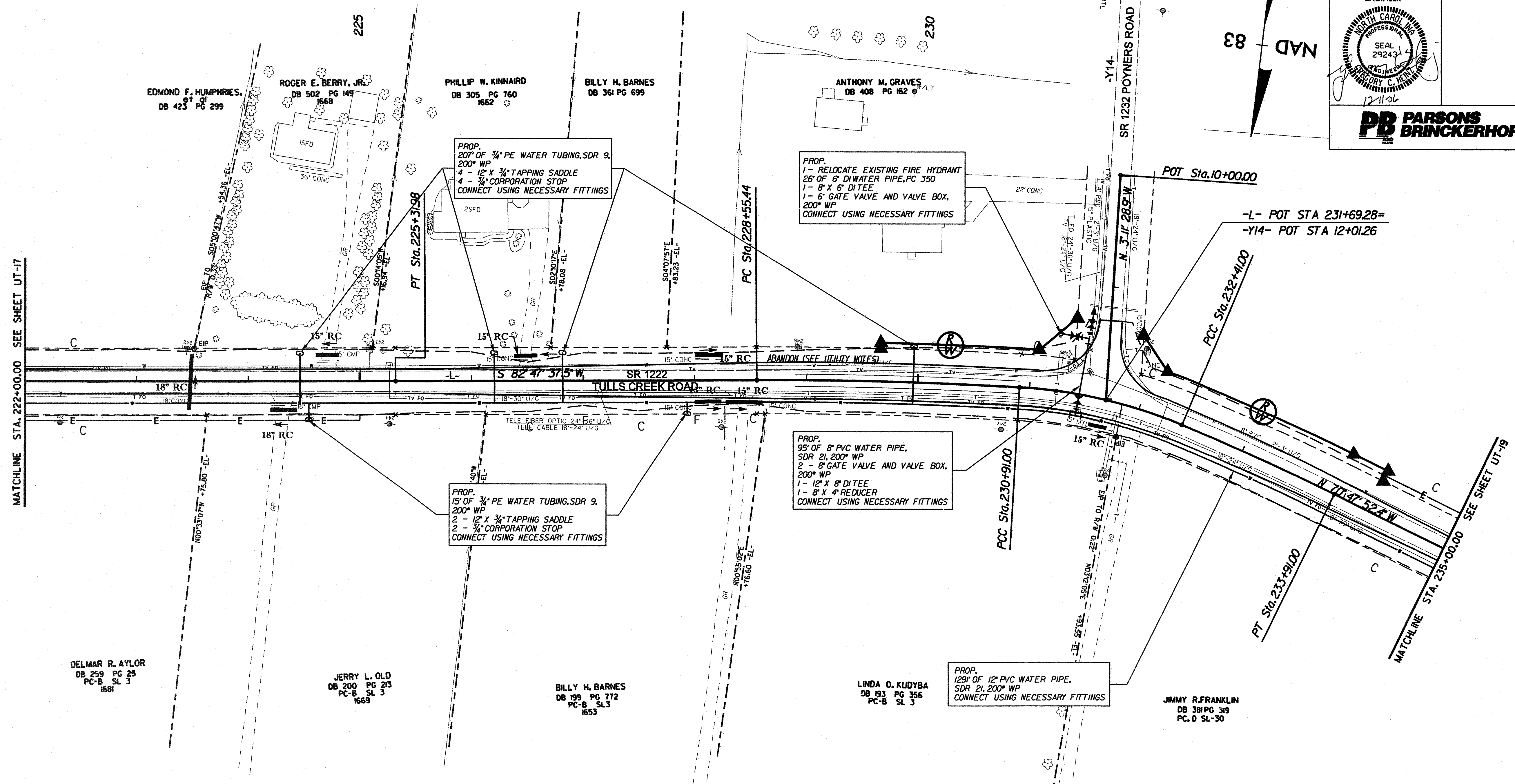
PROP.  
1305' OF 12\"/>

- NOTES:
1. PROPOSED WATER LINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



MATCHLINE STA. 222+00.00 SEE SHEET UT-17

MATCHLINE STA. 235+00.00 SEE SHEET UT-19



PROP.  
207' OF 3/4" PE WATER TUBING, SDR 9,  
200" WP  
4 - 12" X 3/4" TAPPING SADDLE  
4 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

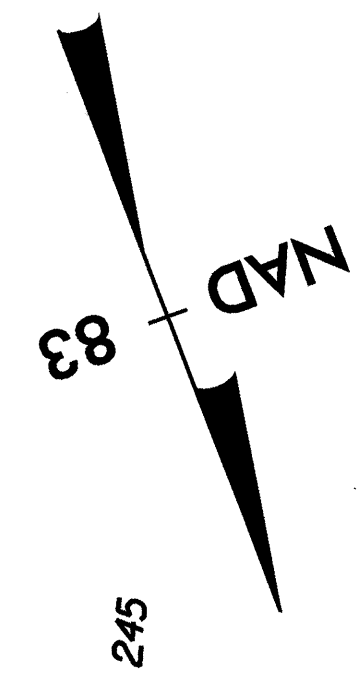
PROP.  
1 - RELOCATE EXISTING FIRE HYDRANT  
26' OF 6" DI WATER PIPE, PC 350  
1 - 8" X 6" DITEE  
1 - 6" GATE VALVE AND VALVE BOX,  
200" WP  
CONNECT USING NECESSARY FITTINGS

PROP.  
15' OF 3/4" PE WATER TUBING, SDR 9,  
200" WP  
2 - 12" X 3/4" TAPPING SADDLE  
2 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

PROP.  
95' OF 8" PVC WATER PIPE,  
SDR 21, 200" WP  
2 - 8" GATE VALVE AND VALVE BOX,  
200" WP  
1 - 12" X 8" DITEE  
1 - 8" X 4" REDUCER  
CONNECT USING NECESSARY FITTINGS

PROP.  
129' OF 12" PVC WATER PIPE,  
SDR 21, 200" WP  
CONNECT USING NECESSARY FITTINGS

- NOTES:
1. PROPOSED WATER LINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



ESMOND L. DOMINICK, JR.  
DB 178 PG 714

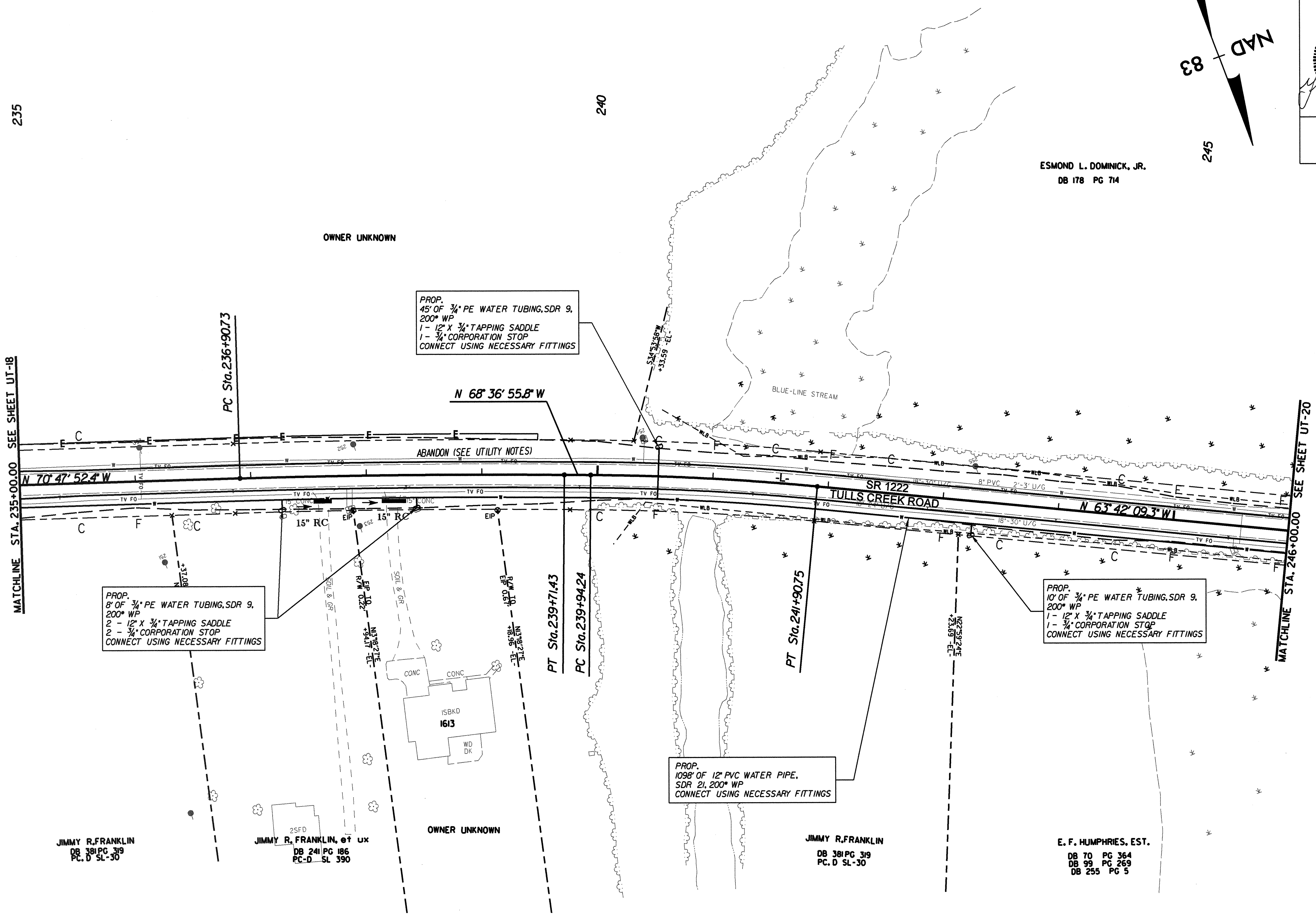
235

240

OWNER UNKNOWN

MATCHLINE STA. 235+00.00 SEE SHEET UT-18

MATCHLINE STA. 246+00.00 SEE SHEET UT-20



PROP.  
45' OF 3/4" PE WATER TUBING, SDR 9,  
200' WP  
1 - 12" X 3/4" TAPPING SADDLE  
1 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

PROP.  
8' OF 3/4" PE WATER TUBING, SDR 9,  
200' WP  
2 - 12" X 3/4" TAPPING SADDLE  
2 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

PROP.  
10' OF 3/4" PE WATER TUBING, SDR 9,  
200' WP  
1 - 12" X 3/4" TAPPING SADDLE  
1 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

PROP.  
1098' OF 12" PVC WATER PIPE,  
SDR 21, 200' WP  
CONNECT USING NECESSARY FITTINGS

JIMMY R. FRANKLIN  
DB 38 PG 319  
PC. D SL-30

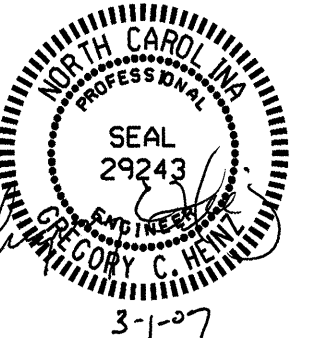

JIMMY R. FRANKLIN, et ux  
25FD  
DB 24 PG 186  
PC. D SL 390

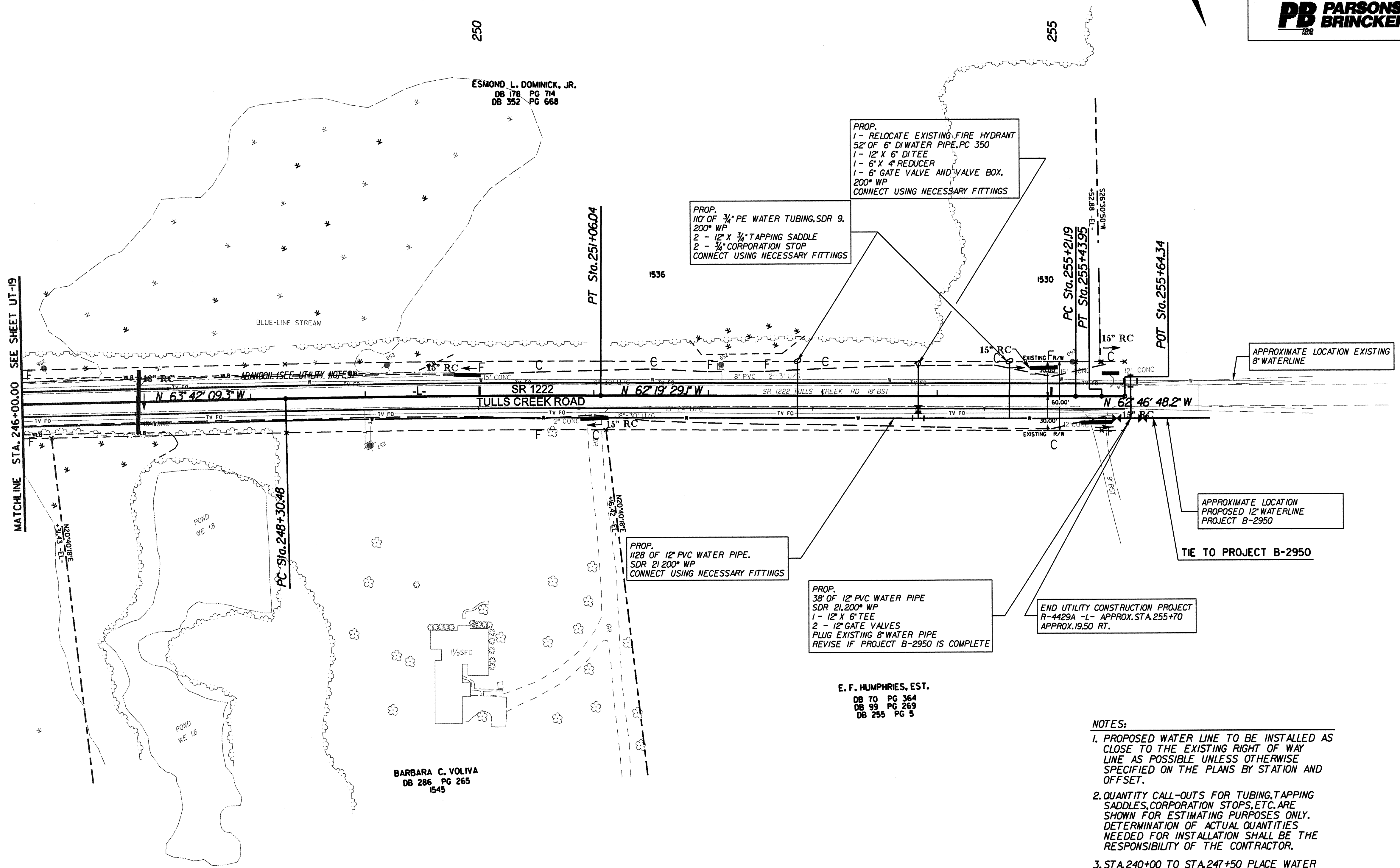
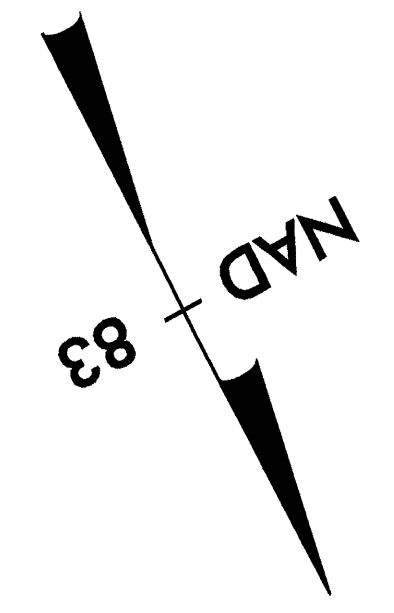
OWNER UNKNOWN

JIMMY R. FRANKLIN  
DB 38 PG 319  
PC. D SL-30

E. F. HUMPHRIES, EST.  
DB 70 PG 364  
DB 99 PG 269  
DB 255 PG 5

- NOTES:**
1. PROPOSED WATER LINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
  3. STA. 240+00 TO 247+50 PLACE WATER LINE NO FURTHER THAN 20' FROM CENTERLINE TO AVOID WETLAND IMPACTS.

PROJECT REFERENCE NO. R-4429A	SHEET NO. UT-20
R / W SHEET NO.	
ROADWAY DESIGN ENGINEER	
	
	



PROP.  
1 - RELOCATE EXISTING FIRE HYDRANT  
52' OF 6\"/>

PROP.  
110' OF 3/4\"/>

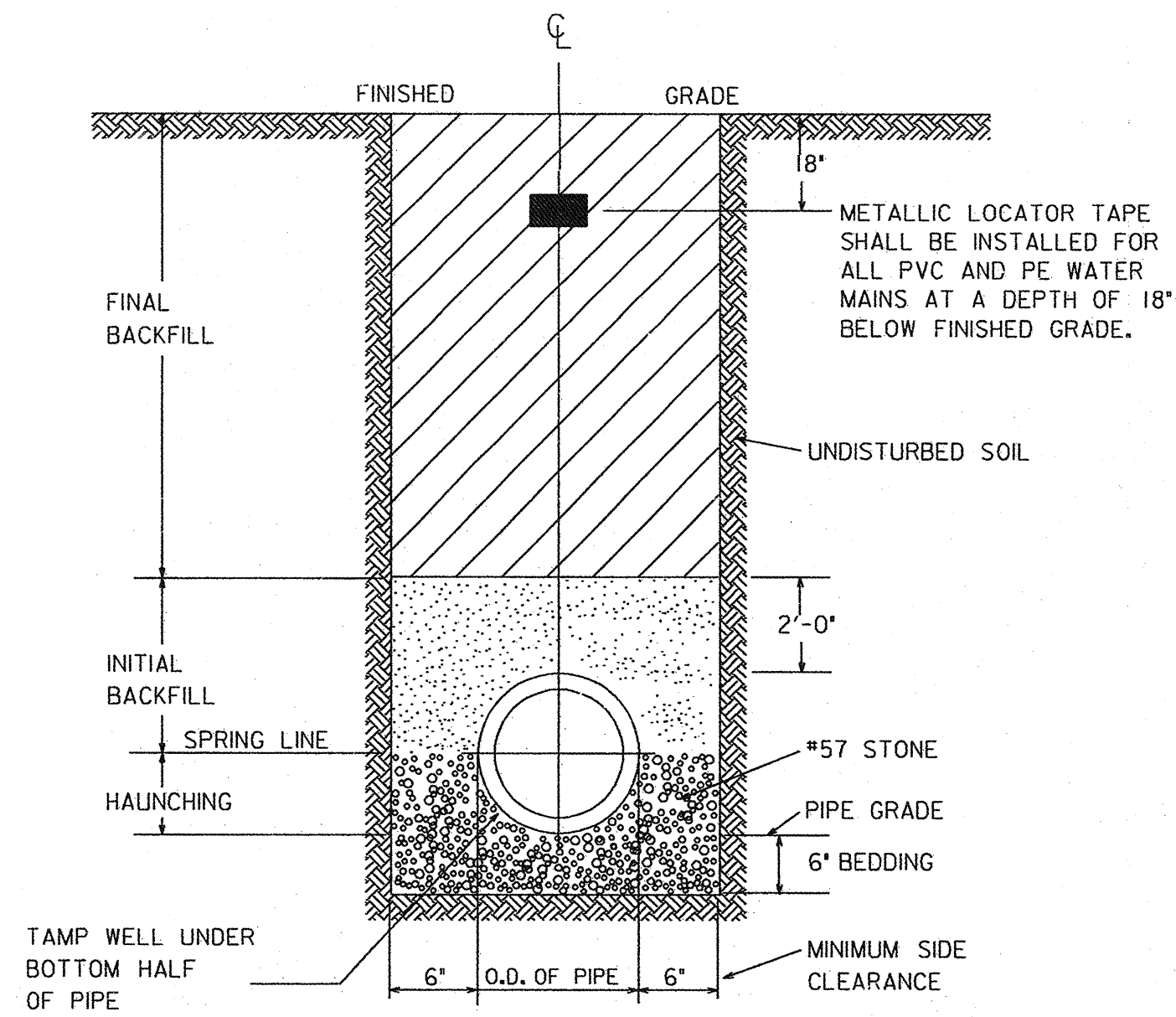
PROP.  
1128' OF 12\"/>

PROP.  
38' OF 12\"/>

END UTILITY CONSTRUCTION PROJECT  
R-4429A -L- APPROX. STA. 255+70  
APPROX. 19.50 RT.

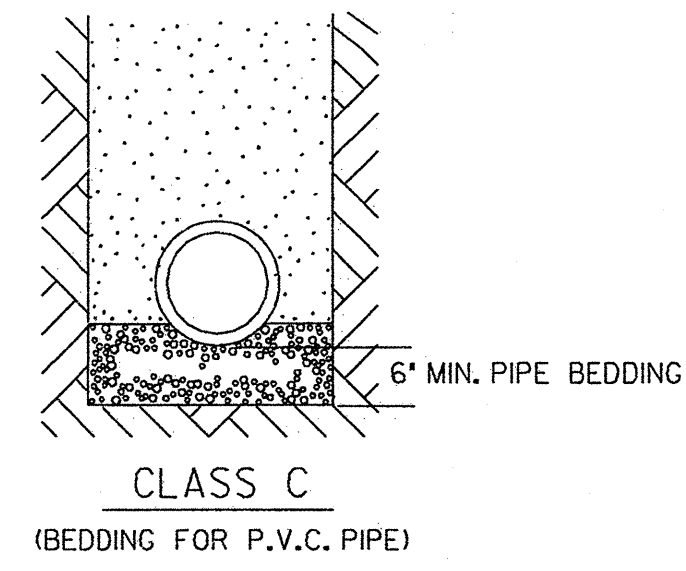
E. F. HUMPHRIES, EST.  
DB TO PG 364  
DB 99 PG 269  
DB 255 PG 5

- NOTES:**
1. PROPOSED WATER LINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
  3. STA. 240+00 TO STA. 247+50 PLACE WATER LINE NO FURTHER THAN 20' FROM CENTERLINE TO AVOID WETLAND IMPACTS.



MAXIMUM TRENCH WIDTH  
AT TOP OF PIPE

NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)
4	28
6	30
8	32
10	34
12	36

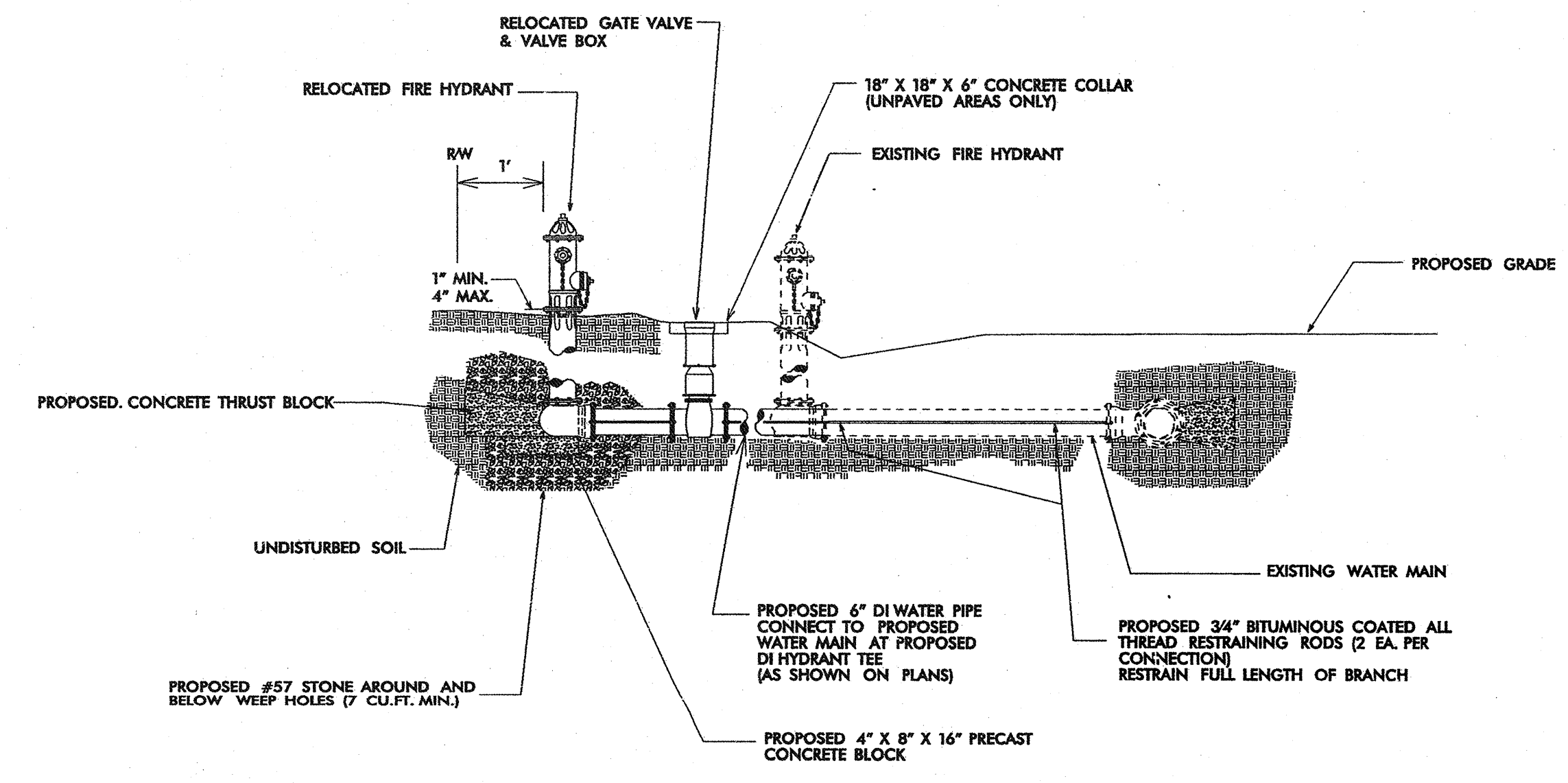


- GENERAL NOTES:**
- NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN INITIAL BACKFILL.
  - BACKFILL SHALL BE TAMPED IN 6" LIFTS (MAX).
  - ALL BACKFILL MATERIAL SHALL BE NATIVE MATERIAL.
  - FOR TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND THE BRACING.
  - PIPE SHALL BE BEDDED IN LOOSE MATERIAL, LIGHTLY TAMPED WITH A MINIMUM OF 6" UNDER PIPE.
  - ALL BACKFILL MATERIAL SHALL BE FREE OF FOREIGN MATERIAL, FROZEN EARTH, AND ORGANICS.
  - COMPACTION SHALL BE TO APPROXIMATELY 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE NCDOT.

**TRENCH AND BACKFILLING DETAILS**  
N.T.S.

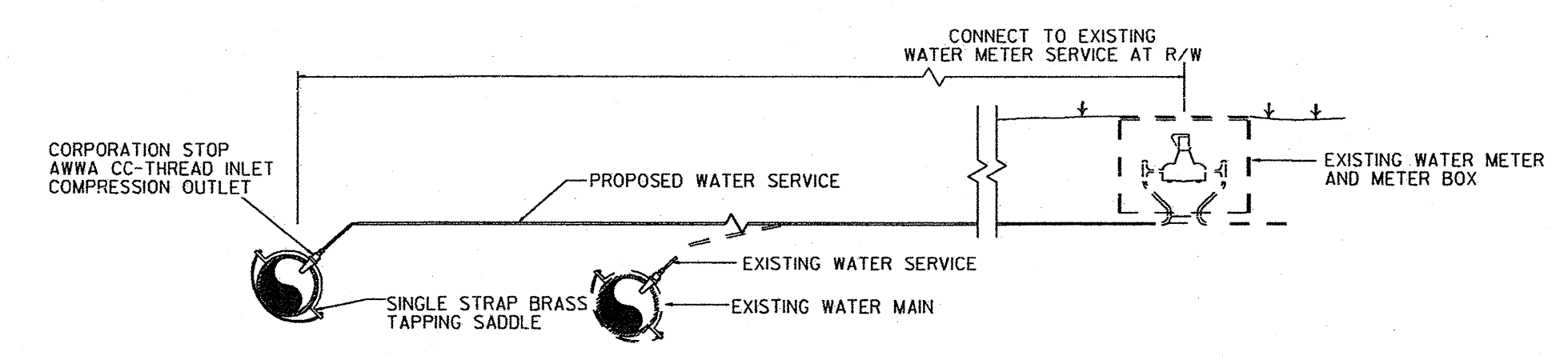
**GENERAL NOTES PERTAINING TO WATERWORKS CONSTRUCTION**

- ALL WATERWORKS RELATED CONSTRUCTION SHALL COMPLY WITH APPLICABLE NCDOT, CURRITUCK COUNTY, AND NCDENR (DIVISION OF ENVIRONMENTAL HEALTH, PUBLIC WATER SUPPLY SECTION) STANDARDS.
- MINIMUM COVER FROM FINISHED GRADE FOR ALL WATER LINES SHALL BE 3'.
- UTILITIES ARE ILLUSTRATED FOR INFORMATION PURPOSES ONLY. NCDOT WILL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF UTILITY LOCATIONS, SIZES, DEPTHS, OR THE COMPLETENESS OF UTILITY INFORMATION. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITY INFORMATION.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL INTERRUPTION OF WATER SERVICE WITH AFFECTED BUSINESSES AND RESIDENTS AT LEAST 48 HOURS PRIOR TO THE PLANNED INTERRUPTION OF SERVICE.
- CONTRACTOR SHALL PHASE WATERWORKS CONSTRUCTION TO MINIMIZE THE FREQUENCY AND DURATION OF WATER SERVICE INTERRUPTIONS.
- CONTRACTOR SHALL PERFORM WATER LINE ACCEPTANCE TESTING IN ACCORDANCE WITH NCDOT, CURRITUCK COUNTY, AND NCDENR (DIVISION OF ENVIRONMENTAL HEALTH, PUBLIC WATER SUPPLY SECTION) REQUIREMENTS.
- PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS WHOSE FACILITIES WILL BE AFFECTED TO DETERMINE UTILITY LOCATIONS. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING WATER SERVICES AND ENSURING THAT ALL EXISTING WATER SERVICES, WITHIN THE LIMITS OF THE PROPOSED WATER MAIN RELOCATION, ARE RECONNECTED TO THE NEW WATER MAIN.
- CONTRACTOR SHALL PROTECT ALL UTILITIES FROM DAMAGE CAUSED BY HIS OPERATIONS OR THOSE OF HIS AGENTS. CONTRACTOR SHALL HOLD THE NCDOT HARMLESS FOR ANY THIRD PARTY INCONVENIENCE CREATED BY WORK OF HIS OWN FORCES OR THAT OF HIS AGENTS.
- CONTRACTOR SHALL ADJUST VALVE BOXES, MANHOLES, AND OTHER UTILITIES TO THE FINISHED GRADE AS NECESSARY.
- EXISTING WATERWORKS THAT ARE REMOVED FROM SERVICE SHALL BE PLUGGED AND ABANDONED IN PLACE.
- THE CONTRACTOR SHALL NOTE THAT GRAPHICAL REPRESENTATIONS OF VALVE, TEE, HYDRANT, METER, ETC. LOCATIONS SHOWN IN PLANS ARE APPROXIMATE ONLY. WHEN POSSIBLE, CARE SHOULD BE TAKEN TO AVOID PLACING VALVES WITHIN PAVEMENT AREAS; ADDITIONALLY, FIRE HYDRANTS SHALL BE PLACED ONE FOOT INSIDE THE AVAILABLE RIGHT-OF-WAY AS NEAR TO THE LOCATION DEPICTED IN THE PLANS AS IS FEASIBLE, AND WATER METERS SHALL BE PLACED INSIDE AVAILABLE RIGHT-OF-WAY OR EASEMENTS.
- EXISTING WATER METERS SHALL BE RELOCATED AS SHOWN IN THE PLANS WHERE FEASIBLE; OTHERWISE, NEW METERS SHALL BE INSTALLED.



- GENERAL NOTES:**
- FIRE HYDRANTS SHALL BE PLACED A DISTANCE OF 1 FEET INSIDE OF RW AND 6 FEET BACK OF DITCH IN ROADWAY SECTIONS. PUMPER NOZZLE SHALL BE PERPENDICULAR TO ROADWAY.
  - ALL CONCRETE SHALL BE CLASS "B".
  - HYDRANT BRANCH LINE SHALL HAVE THE SAME COVER AS THE MAIN (36" MINIMUM).

**FIRE HYDRANT RELOCATION DETAIL**  
N.T.S.



- GENERAL NOTES:**
- NEW WATER SERVICE LINE SHALL BE OF THE SAME TYPE AND GRADE AS THE EXISTING WATER SERVICE LINE UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
  - THE NEW WATER SERVICE LINE SHALL BE INSTALLED WITH A MINIMUM OF 3' COVER BELOW FINISHED GRADE.

**TYPICAL SERVICE RECONNECT**  
N.T.S.

BASED ON TEST PRESSURE OF 200 P.S.I.

**HORIZONTAL RESTRAINT**  
(ALL AREAS GIVEN ARE IN SQUARE FEET)

PIPE SIZE	DEGREE OF BEND	LBS. STATIC THRUST *	ALLOWABLE SOIL BEARING (PSF)								
			1000	2000	3000	4000	5000	6000	7000	8000	
4"	11/4°	616	1	1	1	1	1	1	1	1	1
	22 1/2°	1,226	1	1	1	1	1	1	1	1	1
	45°	2,405	2	1	1	1	1	1	1	1	1
	90°	4,444	4	2	1	1	1	1	1	1	1
6"	TEE/PLUG	3,143	3	2	1	1	1	1	1	1	1
	11/4°	1,385	2	1	1	1	1	1	1	1	1
	22 1/2°	2,758	3	2	1	1	1	1	1	1	1
	45°	5,409	5	3	2	2	2	2	2	2	2
8"	90°	9,999	10	5	3	3	3	3	3	3	3
	TEE/PLUG	7,068	7	4	3	2	2	2	2	2	2
	11/4°	2,424	3	1	1	1	1	1	1	1	1
	22 1/2°	4,904	5	3	2	2	2	2	2	2	2
10"	45°	9,619	10	5	3	3	3	3	3	3	3
	90°	17,773	18	9	5	4	4	4	4	4	4
	TEE/PLUG	12,568	13	6	4	3	3	3	3	3	3
	11/4°	3,846	4	2	2	2	2	2	2	2	2
12"	22 1/2°	7,661	8	4	3	2	2	2	2	2	2
	45°	15,028	15	8	5	4	3	3	3	3	3
	90°	27,768	28	14	9	7	6	5	4	3	3
	TEE/PLUG	19,635	20	10	6	4	4	3	3	3	3
14"	11/4°	5,543	6	3	2	2	2	2	2	2	2
	22 1/2°	11,032	11	6	4	3	2	2	2	2	2
	45°	21,641	22	11	7	5	4	4	3	3	3
	90°	39,987	40	20	13	10	8	7	6	5	4
16"	TEE/PLUG	28,274	28	14	9	7	6	5	4	4	4
	11/4°	7,544	8	4	3	2	2	2	2	2	2
	22 1/2°	15,016	15	8	5	4	3	3	3	3	3
	45°	29,455	29	15	10	7	6	5	4	4	4
16"	90°	54,426	54	27	18	14	11	9	8	7	7
	TEE/PLUG	38,485	38	19	13	10	8	6	5	5	5
	11/4°	9,854	10	5	3	2	2	2	2	2	2
	22 1/2°	19,612	20	10	7	5	4	3	3	3	3
16"	45°	38,471	38	17	13	10	8	6	5	5	5
	90°	71,085	71	36	24	18	14	12	10	9	9
	TEE/PLUG	50,265	50	25	17	13	10	8	7	6	6

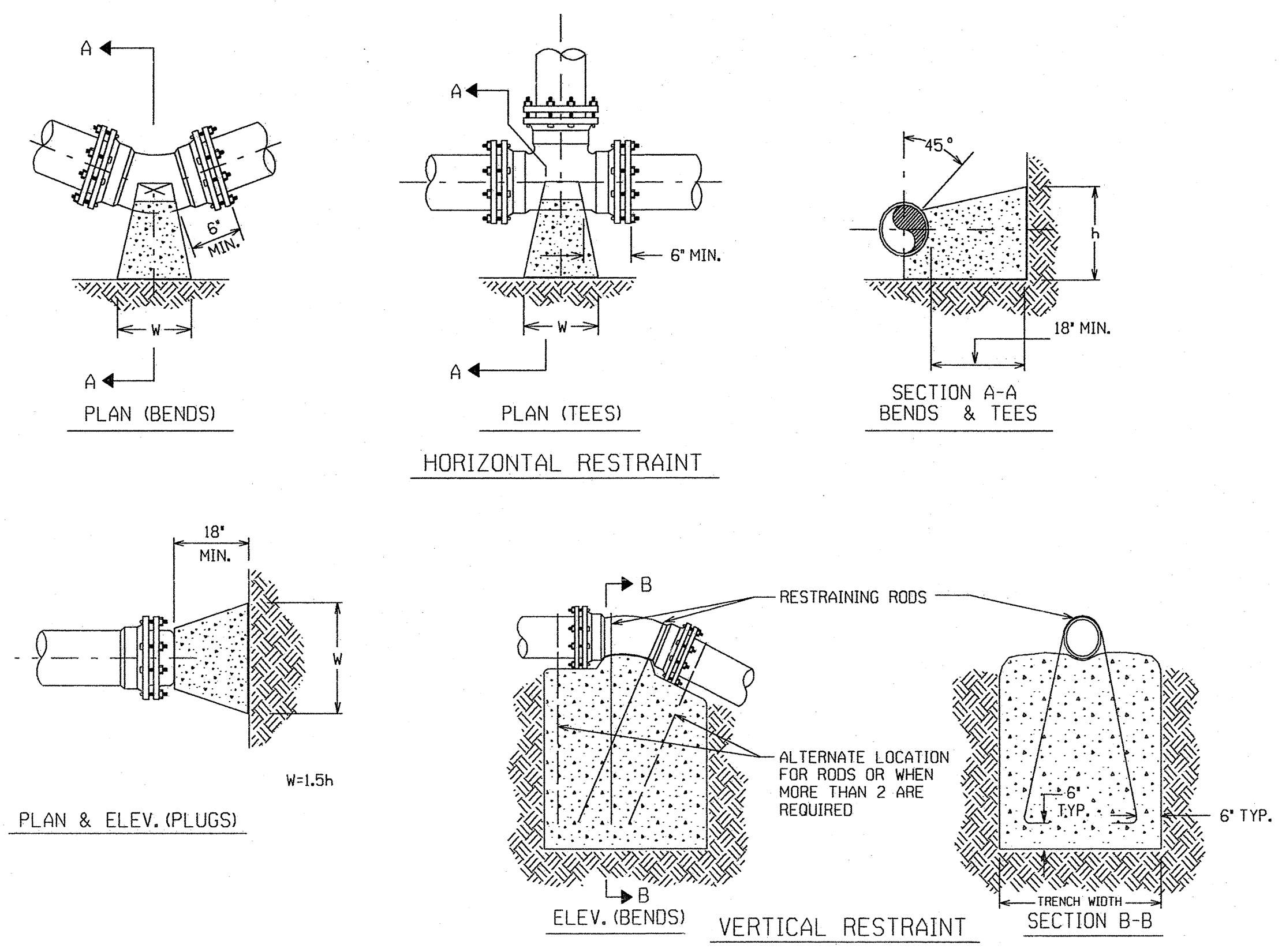
\* INCLUDES 1.25 SAFETY FACTOR

- GENERAL NOTES:  
 1. CONCRETE SHALL BE CLASS "B".  
 2. CONCRETE SHALL NOT CONTACT BOLTS ENDS OF MECHANICAL JOINT FITTINGS.  
 3. ALLOWABLE SOIL BEARING SHALL BE DETERMINED BY THE CONTRACTOR.

**VERTICAL RESTRAINT**  
(ALL VOLUMES GIVEN ARE IN CUBIC YARDS)\*\*

PIPE SIZE	RESTRAINING RODS NO. REQ'D	DIA.	DEGREE OF BEND		
			11/4°	22 1/2°	45°
4"	2	1/2"	0.25	0.50	0.75
6"	2	1/2"	0.50	1.0	1.75
8"	2	5/8"	0.75	1.50	3.0
10"	2	3/4"	1.25	2.25	4.50
12"	2	7/8"	1.75	3.25	6.50
14"	4	5/8"	2.25	4.50	8.75
16"	4	3/4"	3.0	6.0	11.50

\*\*INCLUDES 1.50 SAFETY FACTOR



**THRUST RESTRAINT FOR WATER MAINS**  
N.T.S.

09/08/99  
 19-MAR-2007 08:45  
 r:\utilities\rdy\proj\4429a\_rdy\_tsh.dgn  
 \$\$\$USERNAME\$\$\$

**TIP PROJECT: R-4429A**

**WBS: 34622**

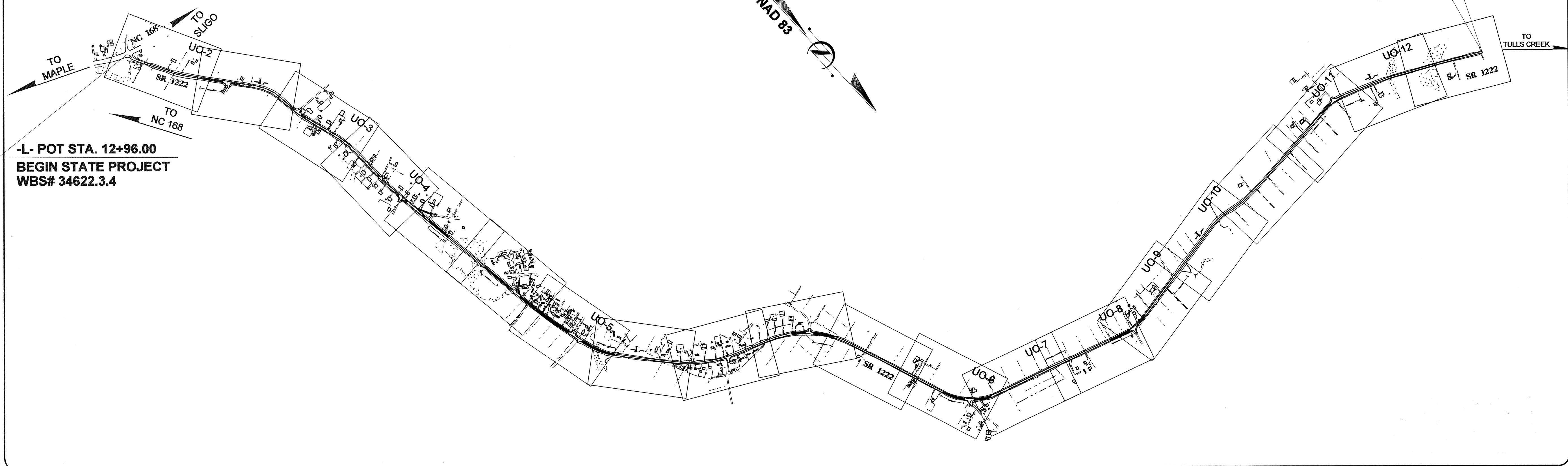
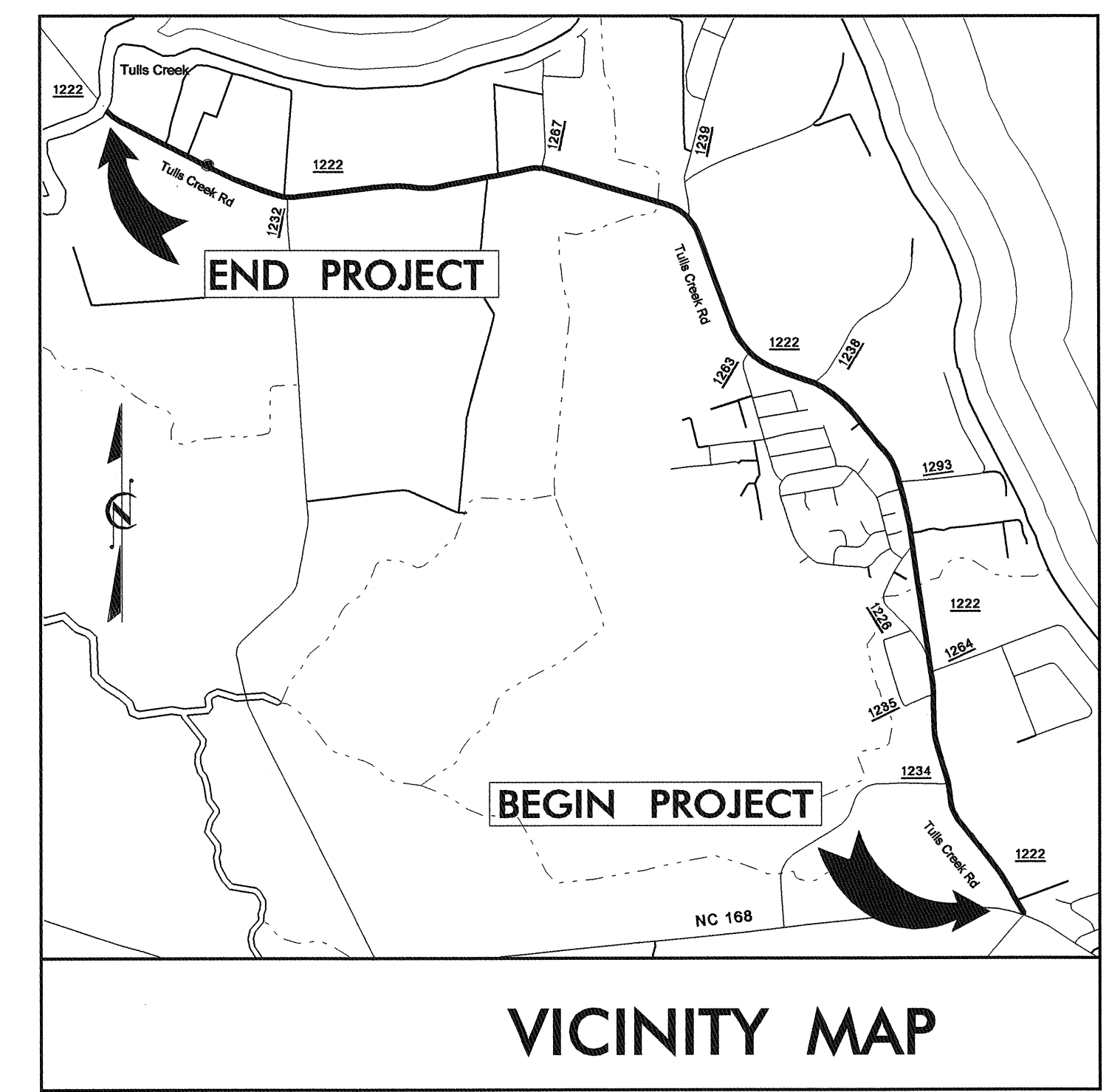
T.I.P. NO.	SHEET NO.
R-4429A	UO-1

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**UTILITY BY OTHERS PLANS  
CURRITUCK COUNTY**

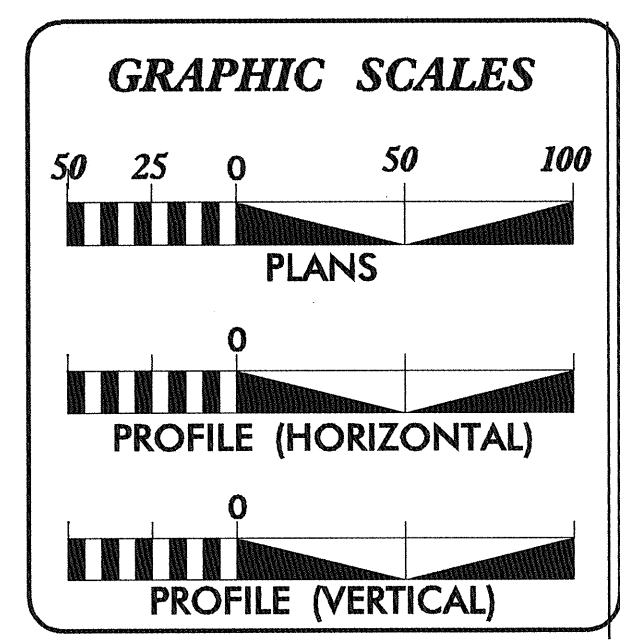
**LOCATION: SR 1222 FROM NC 168/SR 1222  
NORTH 4.7 MILES TO JUST SOUTH OF  
BRIDGE #4 OVER TULLS CREEK**

**TYPE OF WORK: UTILITIES RELOCATION OF POWER, TELEPHONE, W II II4 B CEE TO PROJECT B-2950  
CABLE TV, AND NATURAL GAS**



-L- POT STA. 255+64.34  
END STATE PROJECT  
WBS# 34622.3.4

-L- POT STA. 12+96.00  
BEGIN STATE PROJECT  
WBS# 34622.3.4



INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2 THRU UO-12	UTILITY BY OTHERS PLAN SHEETS

UTILITY OWNERS ON PROJECT
(1) DOMINION POWER
(2) EMARQ
(3) MEDIA-COM
(4) PIEDMONT NATURAL GAS

PREPARED IN THE OFFICE OF:  
**DIVISION OF HIGHWAYS  
DESIGN SERVICES  
UTILITY SECTION**

1591 MAIL SERVICES CENTER  
RALEIGH NC 27699-1591  
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<u>Carl Barclay, P.E.</u>	UTILITIES SQUAD LEADER PROJECT ENGINEER
<u>Ali Kouchehi</u>	UTILITIES PROJECT DESIGNER





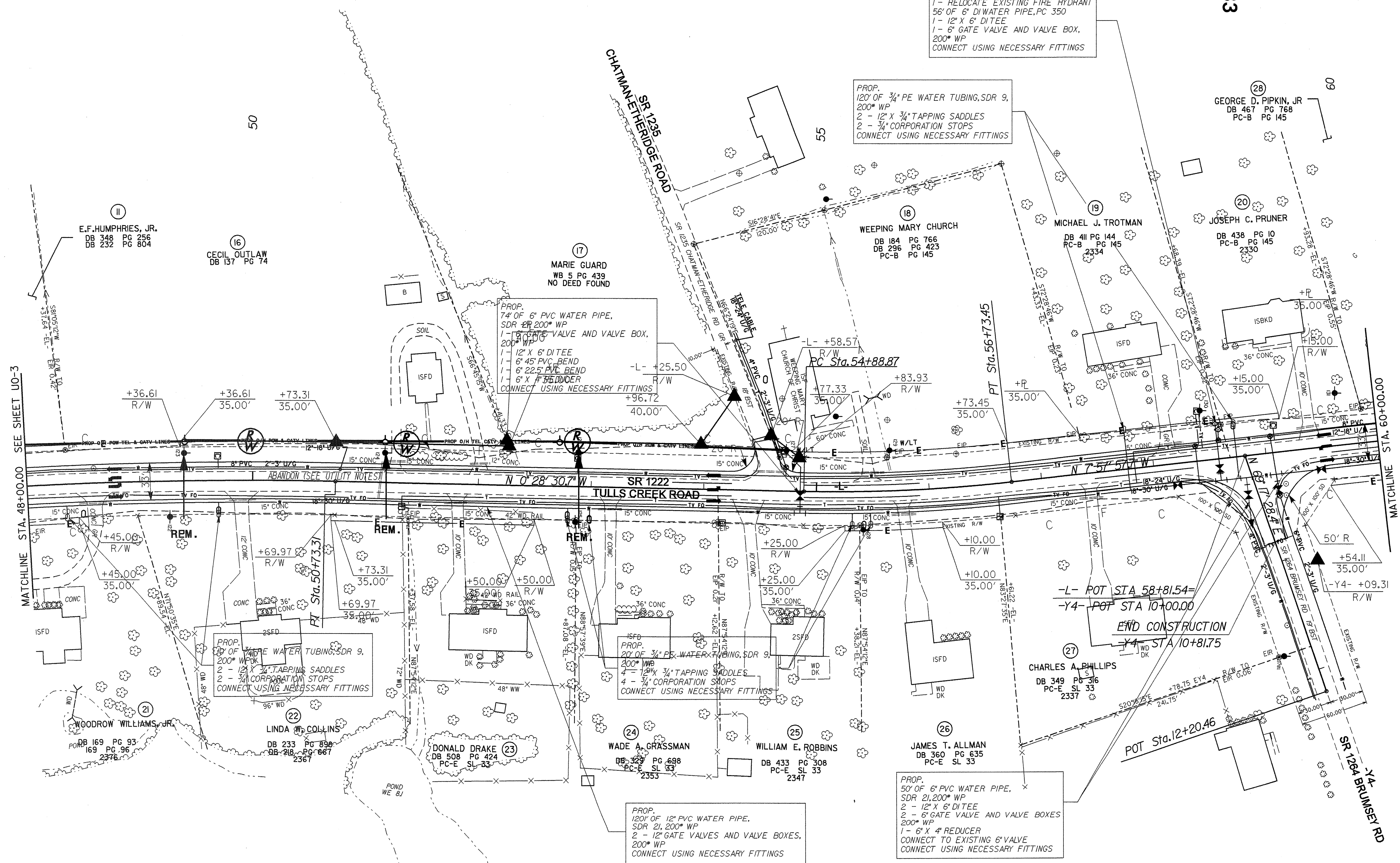
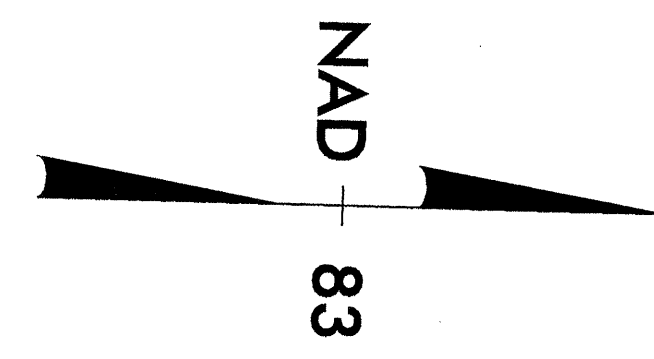


UTILITIES BY OTHERS

NOTE:  
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS

-L-  
PI Sta 49+35.69  
Δ = 4° 09' 43.5" (RT)  
D = 1° 30' 41.5"  
L = 275.36'  
T = 137.74'  
R = 3,790.61'

-L-  
PI Sta 55+81.30  
Δ = 7° 29' 27.0" (LT)  
D = 4° 03' 30.0"  
L = 184.58'  
T = 92.42'  
R = 1,411.81'



GRADE DITCHES AS FOLLOWS:

- 47+30 (GRADE BREAK) → WATER FLOW → 51+40 (OUTLET DITCH) RIGHT SIDE
- 47+75 (GRADE BREAK) → WATER FLOW → 51+15 (CROSS LINE) LEFT SIDE
- 51+15 (CROSS LINE) ← WATER FLOW ← 60+00 (GRADE BREAK) LEFT SIDE
- 51+40 (OUTLET DITCH) ← WATER FLOW ← 54+00 (GRADE BREAK) RIGHT SIDE
- 54+00 (GRADE BREAK) → WATER FLOW → 58+80 SR 1264 (ROADSIDE DITCH) RIGHT SIDE
- 58+80 SR 1264 (ROADSIDE DITCH) → WATER FLOW → 74+30 (OUTLET DITCH) RIGHT SIDE

- NOTES:
- PROPOSED WATER LINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  - QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

NOTES:  
USE CLASS III PIPE UNLESS OTHERWISE NOTED

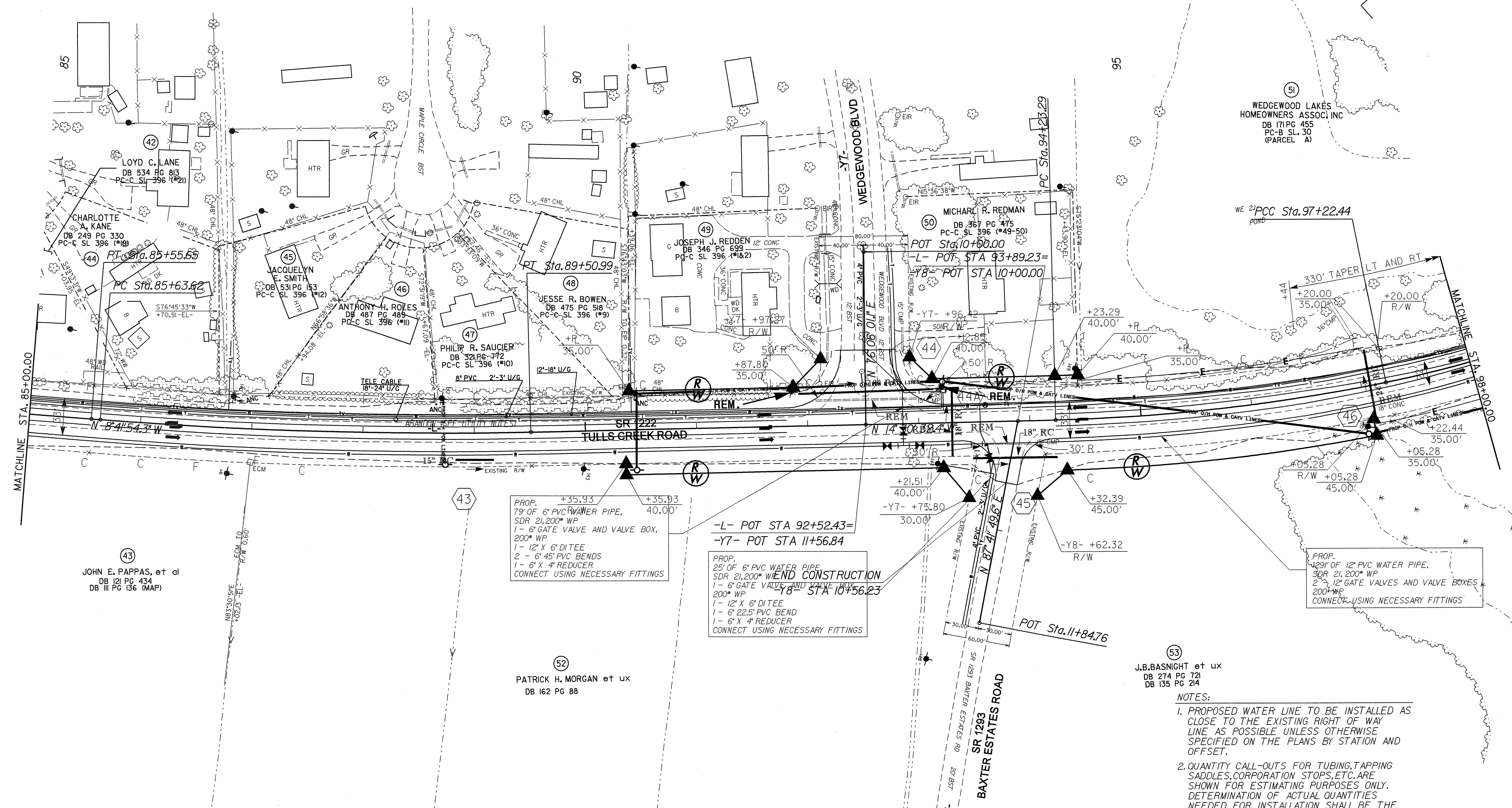
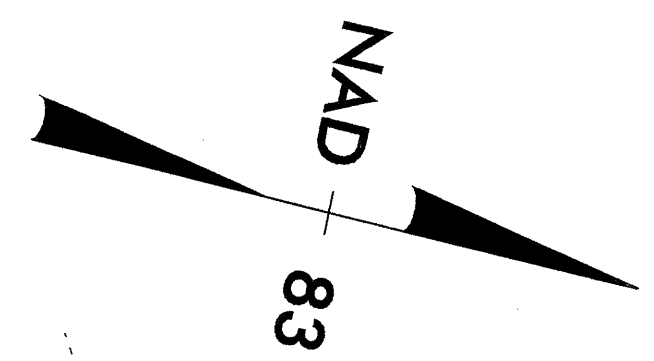
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UTILITIES BY OTHERS

NOTE:  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS

-L-  
PI Sta 87+57.47  
Δ = 5° 48' 38.1" (LT)  
D = 1' 30' 00.0"  
L = 387.37'  
T = 193.85'  
R = 3,819.72'

-L-  
PI Sta 95+73.25  
Δ = 10° 08' 01.4" (LT)  
D = 3' 23' 15.0"  
L = 299.15'  
T = 149.97'  
R = 1,691.39'



GRADE DITCHES AS FOLLOWS:

- 81+45 (OUTLET DITCH) ← WATER FLOW ← 87+50 (GRADE BREAK) RIGHT SIDE
- 81+45 (CROSS LINE) ← WATER FLOW ← 87+50 (GRADE BREAK) LEFT SIDE
- 87+50 (GRADE BREAK) → WATER FLOW → 97+10 (OUTLET DITCH) RIGHT SIDE
- 87+50 (GRADE BREAK) → WATER FLOW → 97+10 (CROSS LINE) LEFT SIDE
- 97+10 (OUTLET DITCH) ← WATER FLOW ← 98+50 (GRADE BREAK) RIGHT SIDE
- 97+10 (CROSS LINE) ← WATER FLOW ← 98+50 (GRADE BREAK) LEFT SIDE

- NOTES:
1. PROPOSED WATER LINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
  3. STA. 96+00 TO STA. 98+00 PLACE WATER LINE NO FURTHER THAN 20' FROM CENTERLINE TO AVOID WETLAND IMPACTS.

NOTES:  
USE CLASS III PIPE UNLESS OTHERWISE NOTED

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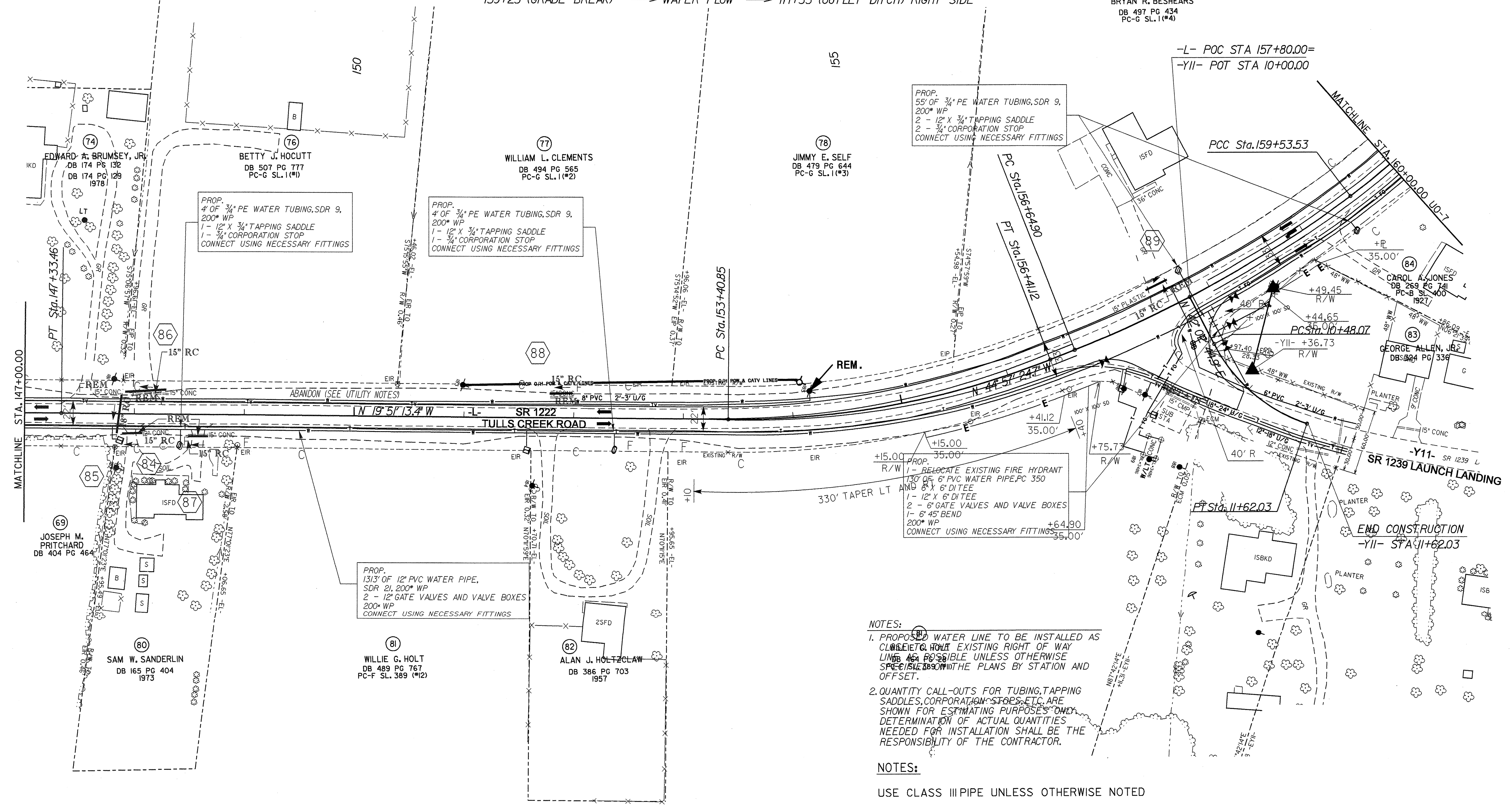
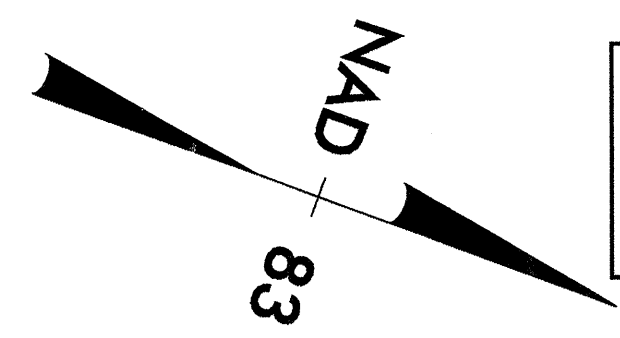
UTILITIES BY OTHERS

NOTE:  
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS

-L-	-L-	-YII-
PI Sta 154+92.82	PI Sta 158+10.14	PI Sta 11+07.96
$\Delta = 21' 46" 11.3" (LT)$	$\Delta = 15' 52" 28.8" (LT)$	$\Delta = 43' 31" 36.1" (LT)$
$D = 7' 15" 00.0"$	$D = 5' 30" 00.0"$	$D = 38' 11" 49.9"$
$L = 300.27'$	$L = 288.63'$	$L = 113.95'$
$T = 151.97'$	$T = 145.25'$	$T = 59.88'$
$R = 790.29'$	$R = 1,041.74'$	$R = 150.00'$

GRADE DITCHES AS FOLLOWS:

- 134+65 (OUTLET DITCH) ← WATER FLOW ← 147+60 (GRADE BREAK) RIGHT SIDE
- 134+65 (CROSS LINE) ← WATER FLOW ← 147+60 (GRADE BREAK) LEFT SIDE
- 147+60 (GRADE BREAK) → WATER FLOW → 147+85 (OUTLET DITCH) LEFT SIDE
- 147+60 (GRADE BREAK) → WATER FLOW → 147+85 (CROSS LINE) RIGHT SIDE
- 147+85 (OUTLET DITCH) ← WATER FLOW ← 152+75 (GRADE BREAK) LEFT SIDE
- 147+85 (CROSS LINE) ← WATER FLOW ← 152+75 (GRADE BREAK) RIGHT SIDE
- 152+75 (GRADE BREAK) → WATER FLOW → 156+90 SR 1239 (ROADSIDE DITCH) LEFT SIDE
- 156+90 SR 1239 (ROADSIDE DITCH) ← WATER FLOW ← 159+25 (GRADE BREAK) RIGHT SIDE
- 152+75 (GRADE BREAK) → WATER FLOW → 171+35 (CROSS LINE) LEFT SIDE
- 159+25 (GRADE BREAK) → WATER FLOW → 171+35 (OUTLET DITCH) RIGHT SIDE



PROP. 1313' OF 12" PVC WATER PIPE, SDR 21, 200" WP  
2 - 12" GATE VALVES AND VALVE BOXES  
200" WP  
CONNECT USING NECESSARY FITTINGS

- NOTES:
1. PROPOSED WATER LINE TO BE INSTALLED AS CLOSE TO EXISTING RIGHT OF WAY LINES AS POSSIBLE UNLESS OTHERWISE SPECIFIED IN THE PLANS BY STATION AND OFFSET.
  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

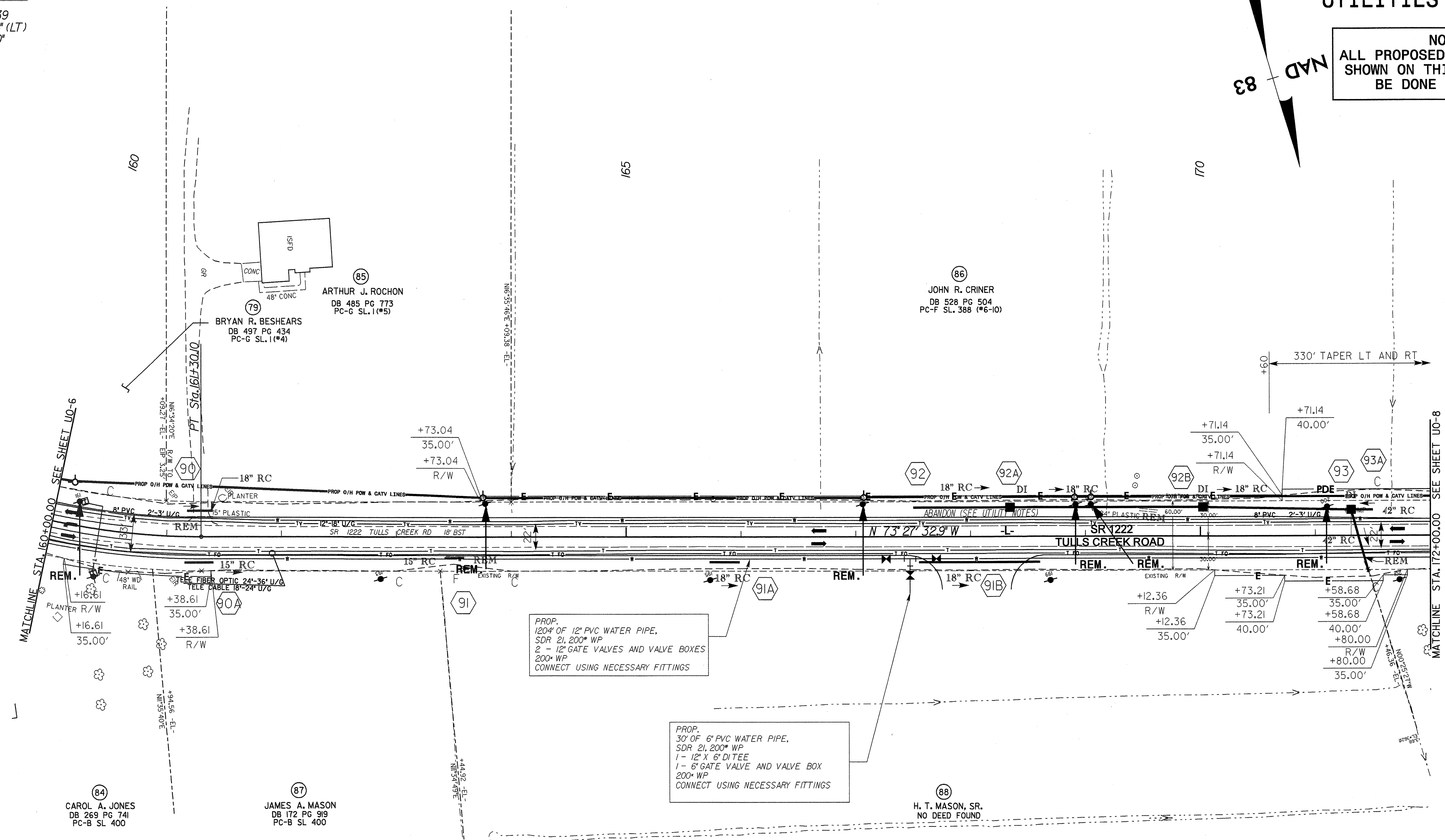
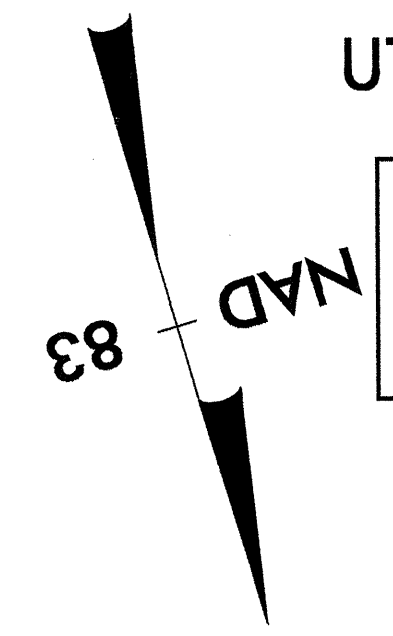
NOTES:  
USE CLASS III PIPE UNLESS OTHERWISE NOTED

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UTILITIES BY OTHERS

NOTE:  
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS

-L-  
PI Sta 160+42.39  
Δ = 15° 57' 39.4" (LT)  
D = 9° 02' 22.0"  
L = 176.57'  
T = 88.86'  
R = 633.84'



PROP.  
120' OF 12" PVC WATER PIPE,  
SDR 21, 200\* WP  
2 - 12" GATE VALVES AND VALVE BOXES  
200\* WP  
CONNECT USING NECESSARY FITTINGS

PROP.  
30' OF 6" PVC WATER PIPE,  
SDR 21, 200\* WP  
1 - 12" X 6" DITTEE  
1 - 6" GATE VALVE AND VALVE BOX  
200\* WP  
CONNECT USING NECESSARY FITTINGS

- NOTES:
1. PROPOSED WATER LINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

GRADE DITCHES AS FOLLOWS:

- 152+75 (GRADE BREAK) → WATER FLOW → 171+35 (CROSS LINE) LEFT SIDE
- 159+25 (GRADE BREAK) → WATER FLOW → 171+35 (OUTLET DITCH) RIGHT SIDE
- 171+35 (OUTLET DITCH) ← WATER FLOW ← 176+70 (GRADE BREAK) RIGHT SIDE
- 171+35 (CROSS LINE) ← WATER FLOW ← 176+70 (GRADE BREAK) LEFT SIDE

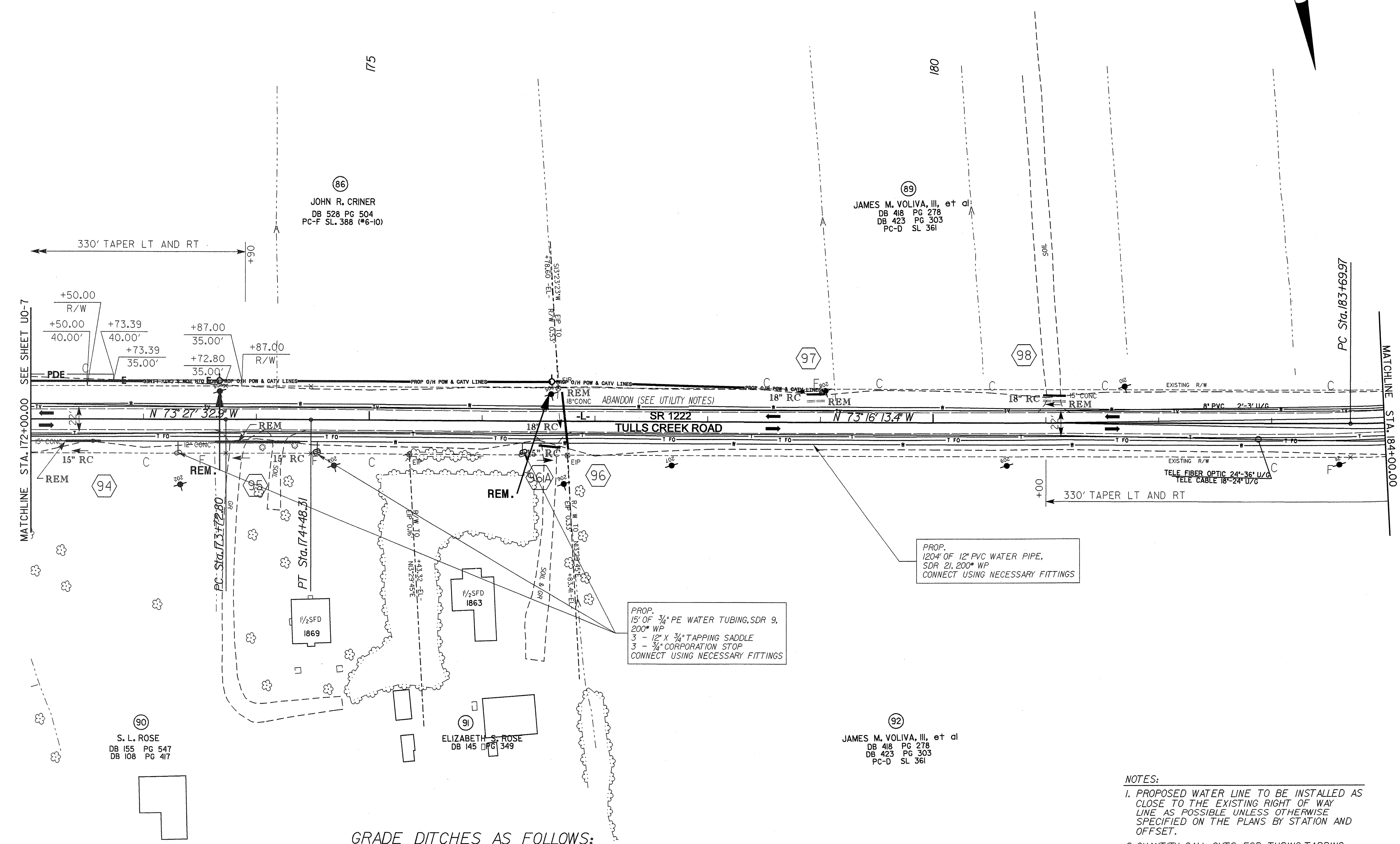
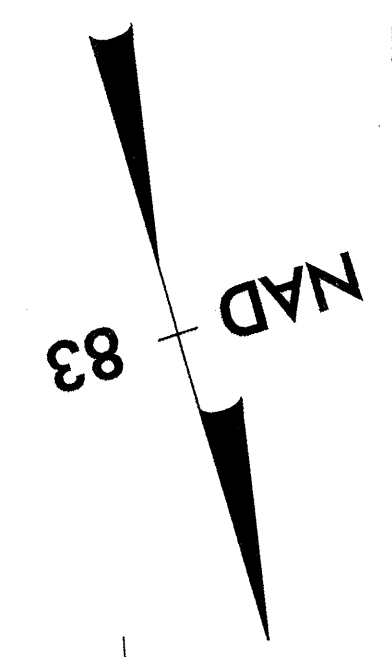
NOTES:  
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UTILITIES BY OTHERS

NOTE:  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS

-L-  
PI Sta 174+10.56  
Δ = 0' 11" 19.6" (RT)  
D = 0' 15" 00.0"  
L = 75.5'  
T = 37.75'  
R = 22,918.31'



PROP.  
15' OF 3/4" PE WATER TUBING, SDR 9,  
200# WP  
3 - 12" X 3/4" TAPPING SADDLE  
3 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

PROP.  
1204' OF 12" PVC WATER PIPE,  
SDR 21, 200# WP  
CONNECT USING NECESSARY FITTINGS

GRADE DITCHES AS FOLLOWS:

- 171+35 (OUTLET DITCH) ← WATER FLOW ← 176+70 (GRADE BREAK) RIGHT SIDE
- 171+35 (CROSS LINE) ← WATER FLOW ← 176+70 (GRADE BREAK) LEFT SIDE
- 176+70 (GRADE BREAK) → WATER FLOW → 176+80 (OUTLET DITCH) RIGHT SIDE
- 176+80 (GRADE BREAK) → WATER FLOW → 176+80 (CROSS LINE) LEFT SIDE
- 176+80 (OUTLET DITCH) ← WATER FLOW ← 185+00 (SR 1267) RIGHT SIDE
- 176+80 (CROSS LINE) ← WATER FLOW ← 176+70 (GRADE BREAK) LEFT SIDE

- NOTES:
1. PROPOSED WATER LINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC., ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

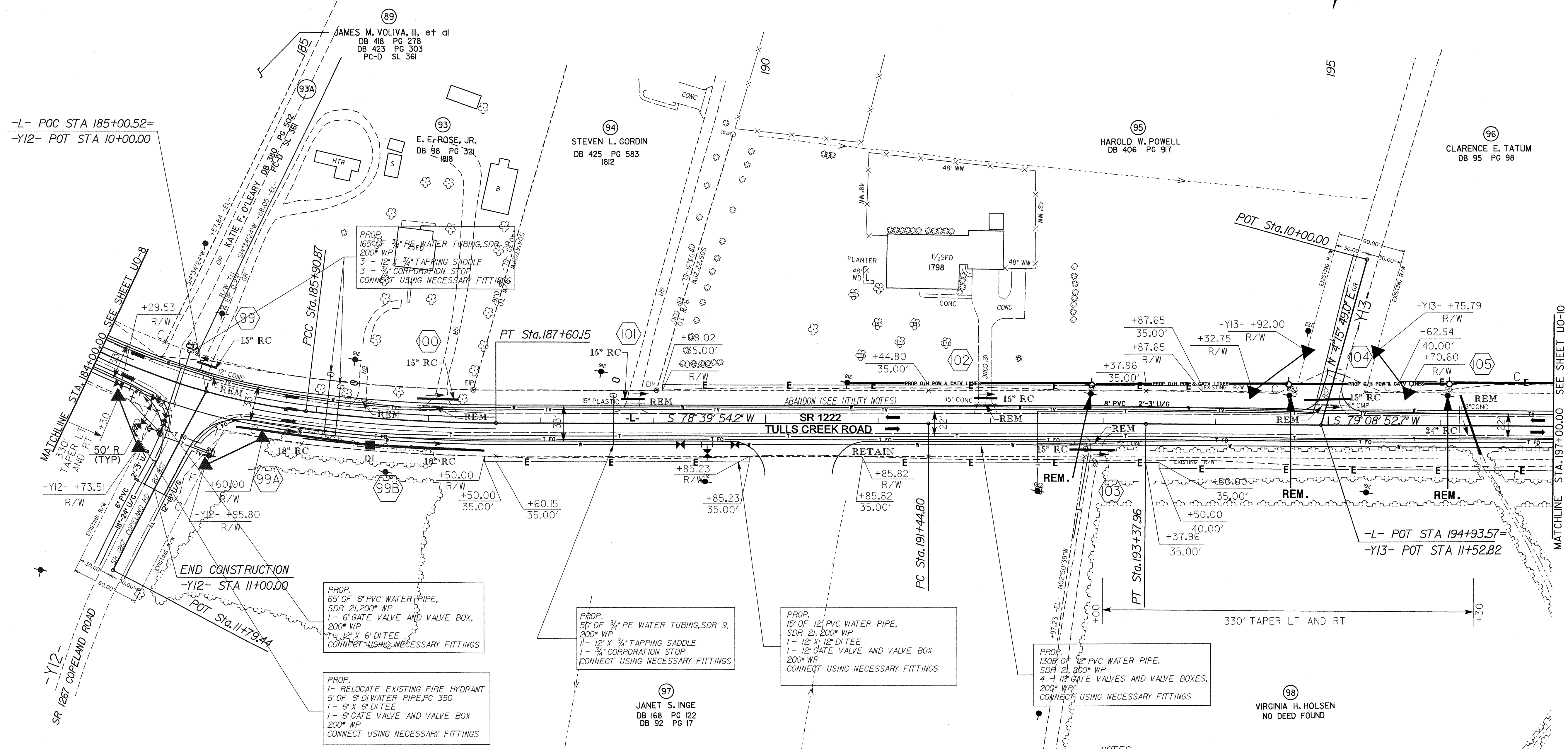
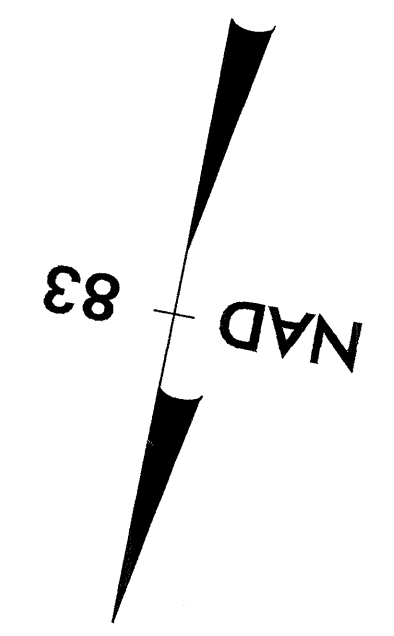
NOTES:  
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UTILITIES BY OTHERS

NOTE:  
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS

-L-	-L-	-L-
PI Sta 184+81.67 = 20° 59' 09.0" (LT) D = 9' 30' 00.0" L = 220.90' T = 111.70' R = 603.11'	PI Sta 186+75.62 Δ = 7° 04' 43.4" (LT) D = 4' 10' 53.8" L = 169.28' T = 84.75' R = 1,370.18'	PI Sta 192+41.38 Δ = 0° 28' 58.4" (RT) D = 0' 15' 00.0" L = 193.16' T = 96.58' R = 22,918.31'



GRADE DITCHES AS FOLLOWS:

176+80 (OUTLET DITCH)	← WATER FLOW ←	185+00 (SR 1267) RIGHT SIDE
176+80 (CROSS PIPE)	← WATER FLOW ←	184+50 (GRADE BREAK) LEFT SIDE
184+50 (GRADE BREAK)	→ WATER FLOW →	184+75 (OUTLET DITCH) LEFT SIDE
184+75 (OUTLET DITCH)	← WATER FLOW ←	186+50 (GRADE BREAK) LEFT SIDE
185+00 (SR 1267)	→ WATER FLOW →	196+15 (OUTLET DITCH) RIGHT SIDE
186+50 (GRADE BREAK)	→ WATER FLOW →	196+15 (CROSS LINE) LEFT SIDE
196+15 (OUTLET DITCH)	← WATER FLOW ←	197+00 (GRADE BREAK) RIGHT SIDE
196+15 (CROSS LINE)	← WATER FLOW ←	197+00 (GRADE BREAK) LEFT SIDE

NOTES:  
1. PROPOSED WATER LINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.  
2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

NOTES:  
USE CLASS III PIPE UNLESS OTHERWISE NOTED

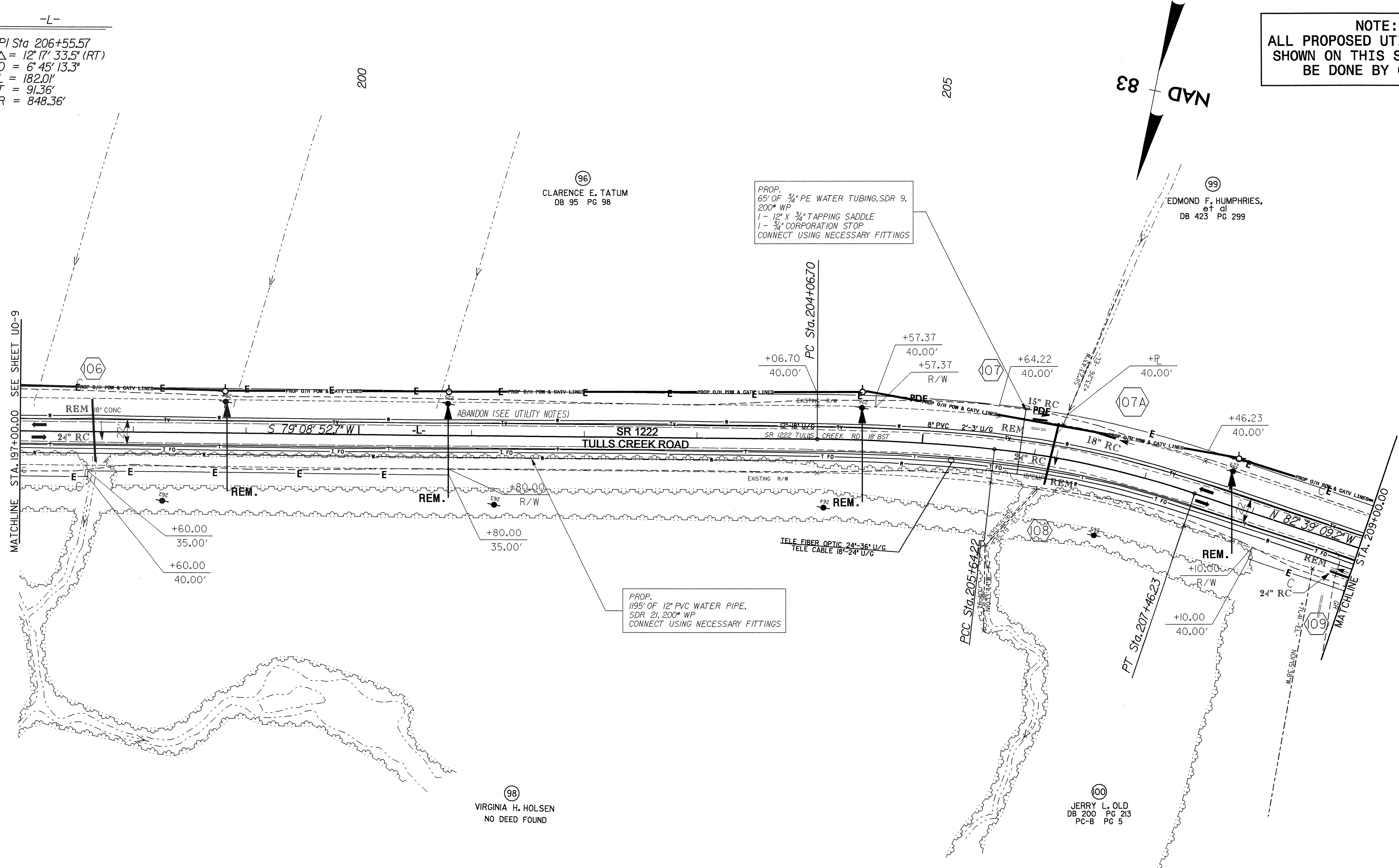
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UTILITIES BY OTHERS

NOTE:  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS

-L-  
PI Sta 204+85.53  
Δ = 5° 54' 24.7" (RT)  
D = 3° 45' 00.0"  
L = 157.52'  
T = 78.83'  
R = 1,527.89'

-L-  
PI Sta 206+55.57  
Δ = 12° 17' 33.5" (RT)  
D = 6° 45' 13.3"  
L = 182.01'  
T = 91.36'  
R = 848.36'



GRADE DITCHES AS FOLLOWS:

- 196+15 (OUTLET DITCH) ← WATER FLOW ← 197+00 (GRADE BREAK) RIGHT SIDE
- 196+15 (CROSS LINE) ← WATER FLOW ← 197+00 (GRADE BREAK) LEFT SIDE
- 197+00 (GRADE BREAK) → WATER FLOW → 197+65 (OUTLET DITCH) RIGHT SIDE
- 197+00 (GRADE BREAK) → WATER FLOW → 197+65 (CROSS LINE) LEFT SIDE
- 197+65 (OUTLET DITCH) ← WATER FLOW ← 204+00 (GRADE BREAK) RIGHT SIDE
- 197+65 (CROSS LINE) ← WATER FLOW ← 204+00 (GRADE BREAK) LEFT SIDE
- 204+00 (GRADE BREAK) → WATER FLOW → 206+15 (OUTLET PIPE) RIGHT SIDE
- 204+00 (GRADE BREAK) → WATER FLOW → 206+15 (CROSS PIPE) RIGHT SIDE
- 206+15 (OUTLET DITCH) ← WATER FLOW ← 221+30 (GRADE BREAK) RIGHT SIDE
- 206+15 (CROSS LINE) ← WATER FLOW ← 221+30 (GRADE BREAK) LEFT SIDE

- NOTES:
- PROPOSED WATER LINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.
  - QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC., ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

NOTES:  
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UTILITIES BY OTHERS

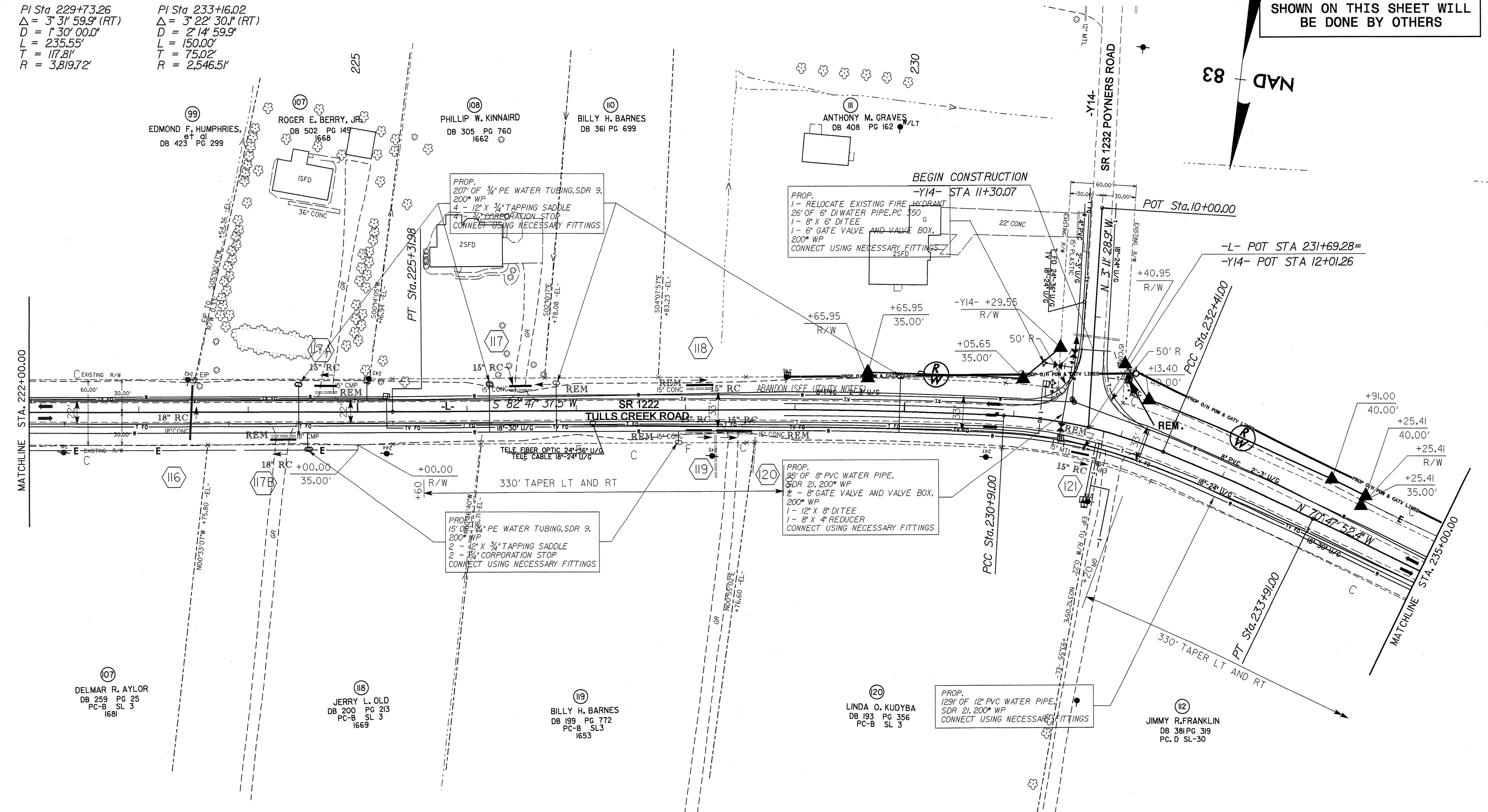
NOTE:  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS

-L-  
PI Sta 221+51.62  
Δ = 0° 45' 38.6" (LT)  
D = 0' 06' 00.0"  
L = 760.73'  
T = 380.37'  
R = 57,295.78'

-L-  
PI Sta 229+73.26  
Δ = 3° 31' 59.9" (RT)  
D = 1° 30' 00.0"  
L = 235.55'  
T = 117.81'  
R = 3,819.72'

-L-  
PI Sta 233+16.02  
Δ = 3° 22' 30.1" (RT)  
D = 2° 14' 59.9"  
L = 150.00'  
T = 75.02'  
R = 2,546.51'

-L-  
PI Sta 231+66.73  
Δ = 19° 30' 00.1" (RT)  
D = 12° 59' 59.9"  
L = 150.00'  
T = 75.73'  
R = 440.74'



GRADE DITCHES AS FOLLOWS:

- 221+30 (GRADE BREAK) → WATER FLOW → 223+50 (CROSS LINE) RIGHT SIDE
- 221+30 (GRADE BREAK) → WATER FLOW → 223+50 (OUTLET DITCH) LEFT SIDE
- 223+50 (CROSS LINE) ← WATER FLOW ← 224+30 (GRADE BREAK) RIGHT SIDE
- 223+50 (OUTLET DITCH) ← WATER FLOW ← 224+70 (GRADE BREAK) LEFT SIDE
- 224+30 (GRADE BREAK) → WATER FLOW → 247+00 (OUTLET DITCH) RIGHT SIDE
- 224+70 (GRADE BREAK) → WATER FLOW → 247+00 (CROSS LINE) LEFT SIDE

NOTES:  
1. PROPOSED WATER LINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT OF WAY LINE AS POSSIBLE UNLESS OTHERWISE SPECIFIED ON THE PLANS BY STATION AND OFFSET.  
2. QUANTITY CALL-OUTS FOR TUBING, TAPPING SADDLES, CORPORATION STOPS, ETC. ARE SHOWN FOR ESTIMATING PURPOSES ONLY. DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

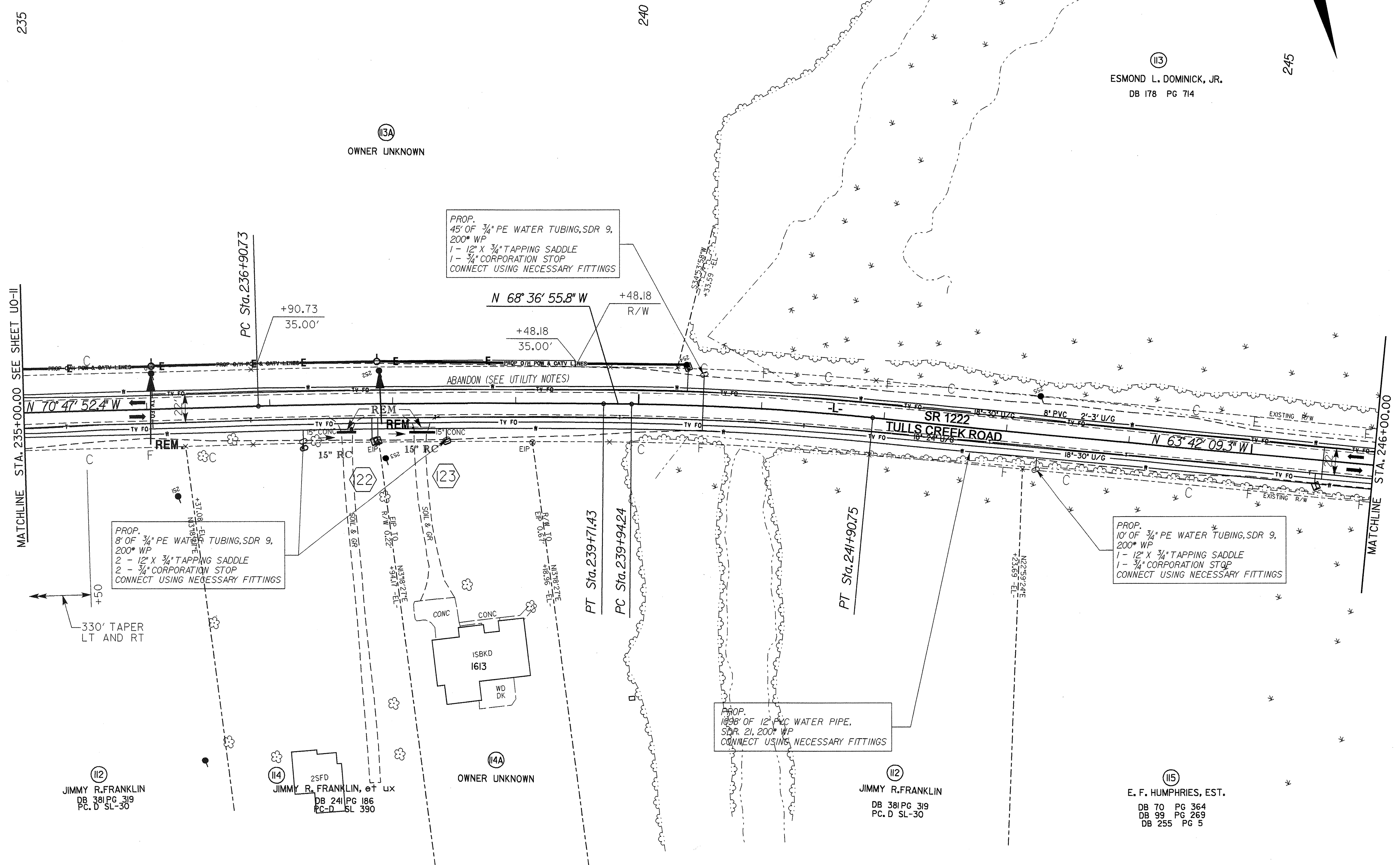
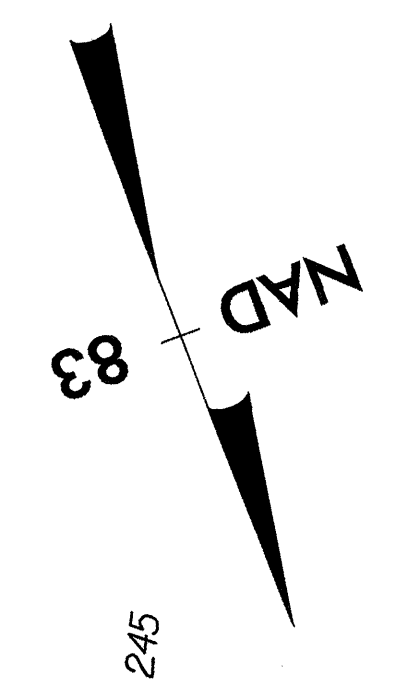
NOTES:  
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### UTILITIES BY OTHERS

**NOTE:**  
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS

-L-	-L-
PI Sta 238+31.09	PI Sta 240+92.56
$\Delta = 2^{\circ}10'56.6"$ (RT)	$\Delta = 4^{\circ}54'46.6"$ (RT)
D = 0'46'38.9"	D = 2'30'00.0"
L = 280.70'	L = 196.52'
T = 140.37'	T = 98.32'
R = 7,369.44'	R = 2,291.83'



PROP.  
45' OF 3/4" PE WATER TUBING, SDR 9,  
200' WP  
1 - 12" X 3/4" TAPPING SADDLE  
1 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

PROP.  
8' OF 3/4" PE WATER TUBING, SDR 9,  
200' WP  
2 - 12" X 3/4" TAPPING SADDLE  
2 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

PROP.  
10' OF 3/4" PE WATER TUBING, SDR 9,  
200' WP  
1 - 12" X 3/4" TAPPING SADDLE  
1 - 3/4" CORPORATION STOP  
CONNECT USING NECESSARY FITTINGS

PROP.  
100' OF 12" PVC WATER PIPE,  
SDR 21, 200' WP  
CONNECT USING NECESSARY FITTINGS

**NOTES:**

- PROPOSED WATER LINE TO BE INSTALLED AS CLOSE TO THE EXISTING RIGHT-OF-WAY LINE AS POSSIBLE UNLESS OTHERWISE AS FOLLOWS:  
224+30 (GRADE BREAK) FOR WATER FLOW → 247+00 (OUTLET DITCH) RIGHT SIDE  
224+70 (GRADE BREAK) FOR WATER FLOW → 247+00 (CROSS LINE) LEFT SIDE  
SADDLES, CORPORATION STOPS, ETC. ARE TO BE INSTALLED AT THE SPECIFIED STATION AND OFFSET.  
DETERMINATION OF ACTUAL QUANTITIES NEEDED FOR INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- STA. 240+00 TO 247+50 PLACE WATER LINE NO FURTHER THAN 20' FROM CENTERLINE TO AVOID WETLAND IMPACTS.

**NOTES:**

USE CLASS III PIPE UNLESS OTHERWISE NOTED

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