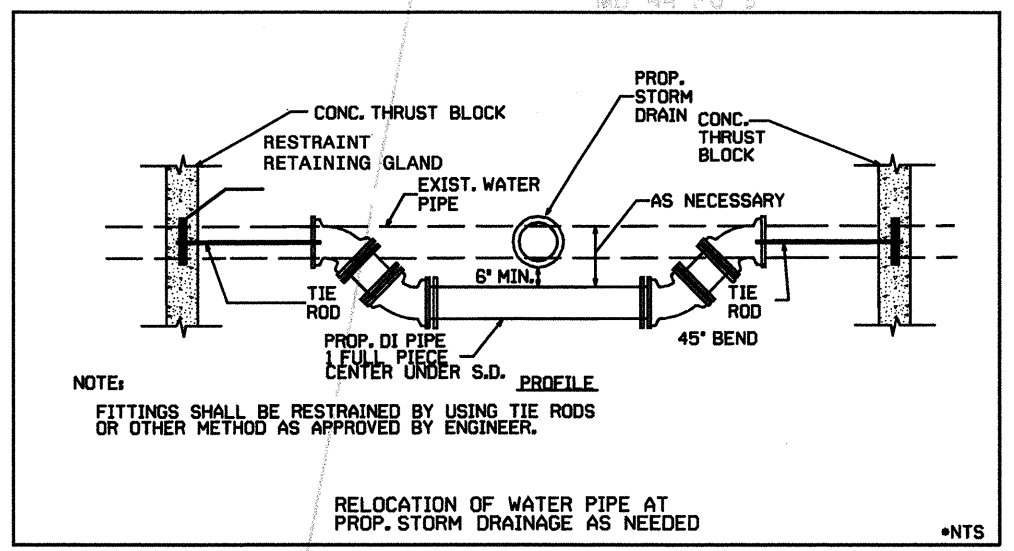
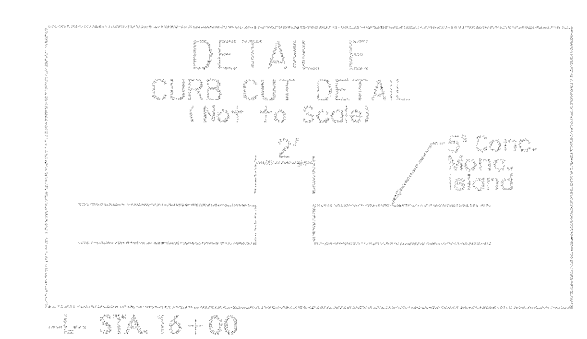
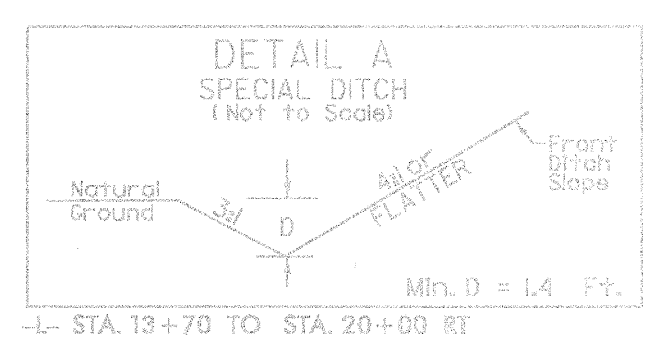
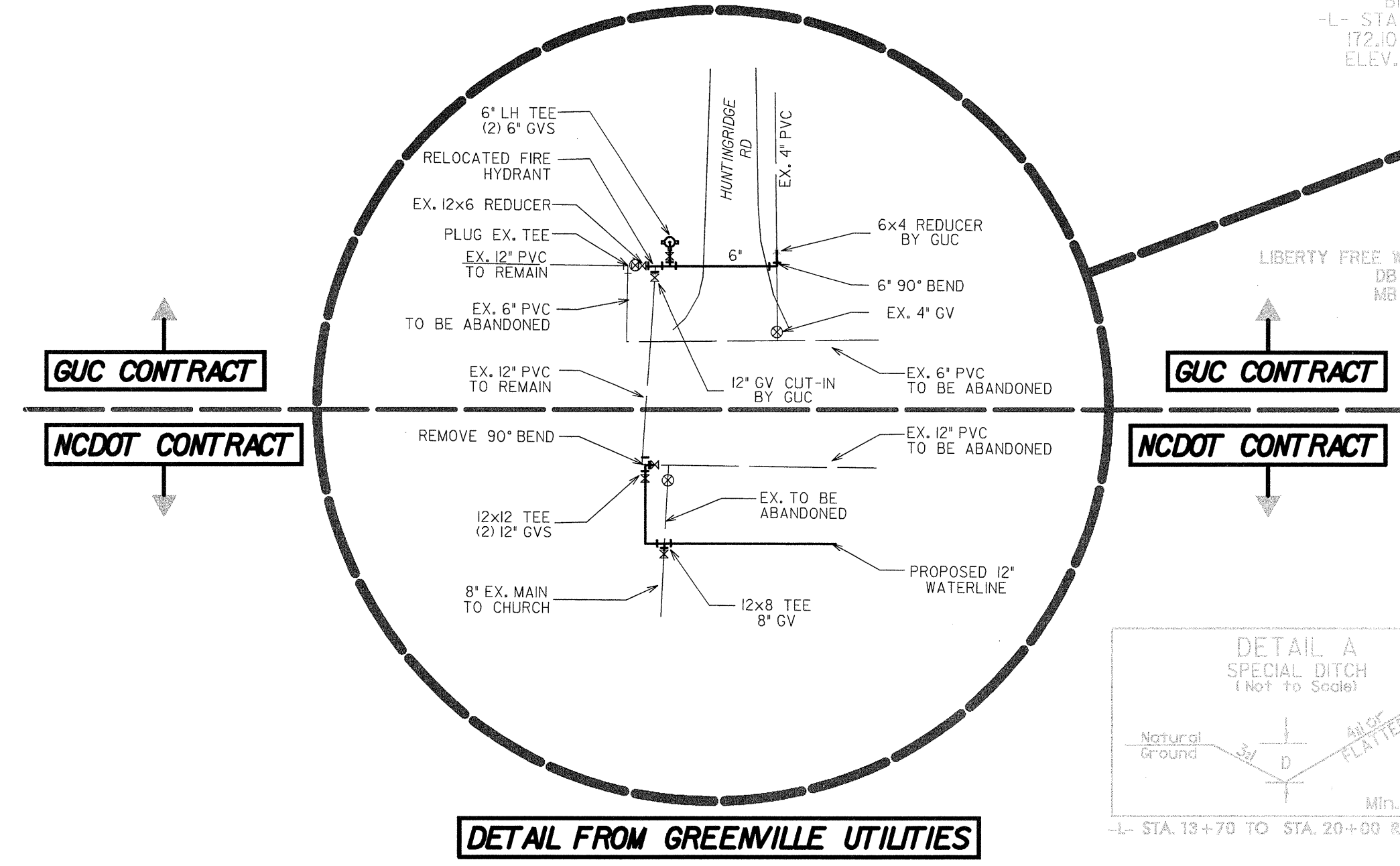
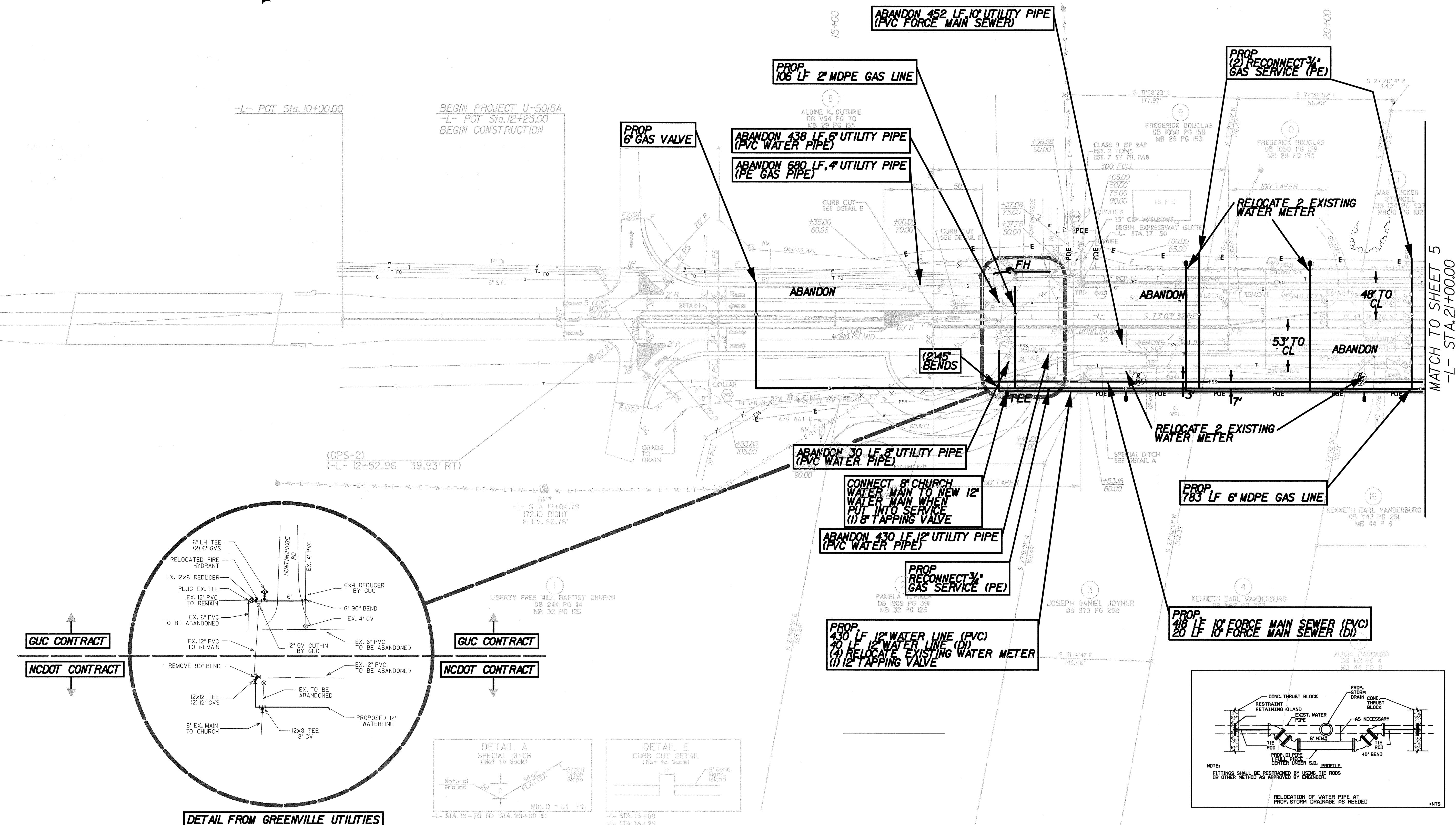
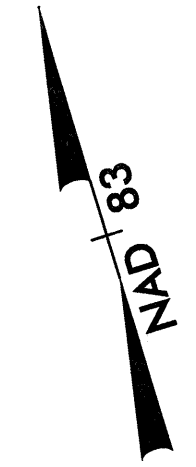


REVISIONS

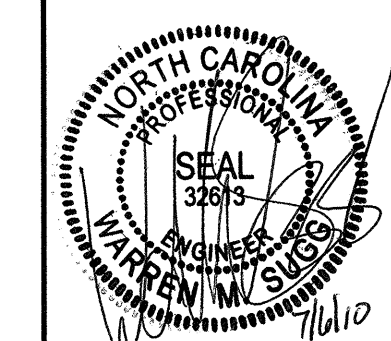
RIGHT OF WAY REVISION 2/17/09
ADDED PERMANENT UTILITY EASEMENT TO PARCEL NOS. 3, 4 AND 16.
UC Plans U5018A-UC4.dgn



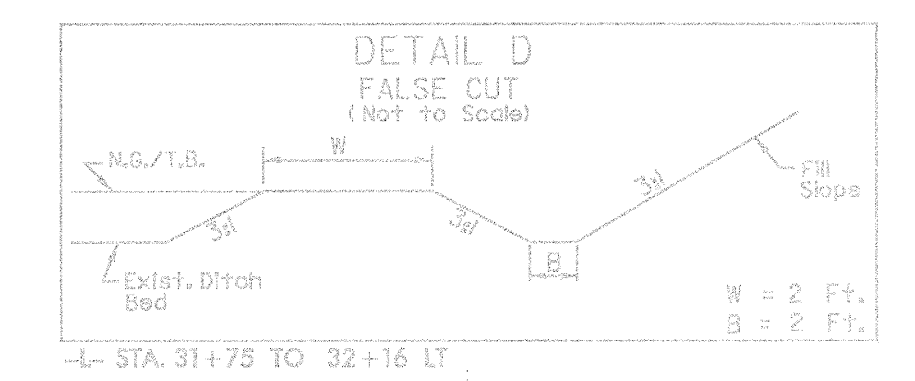
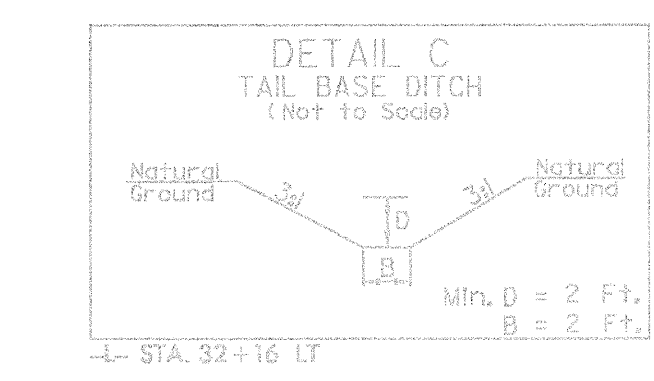
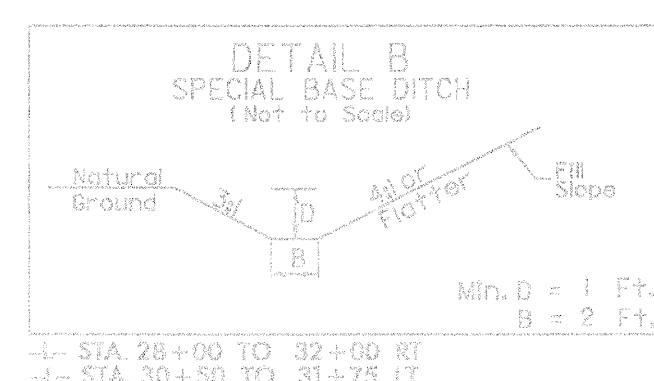
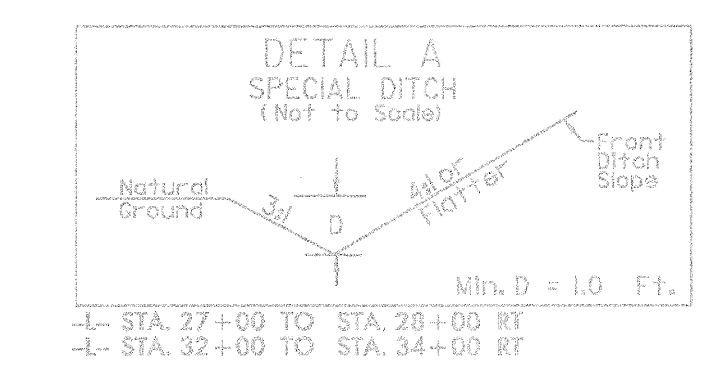
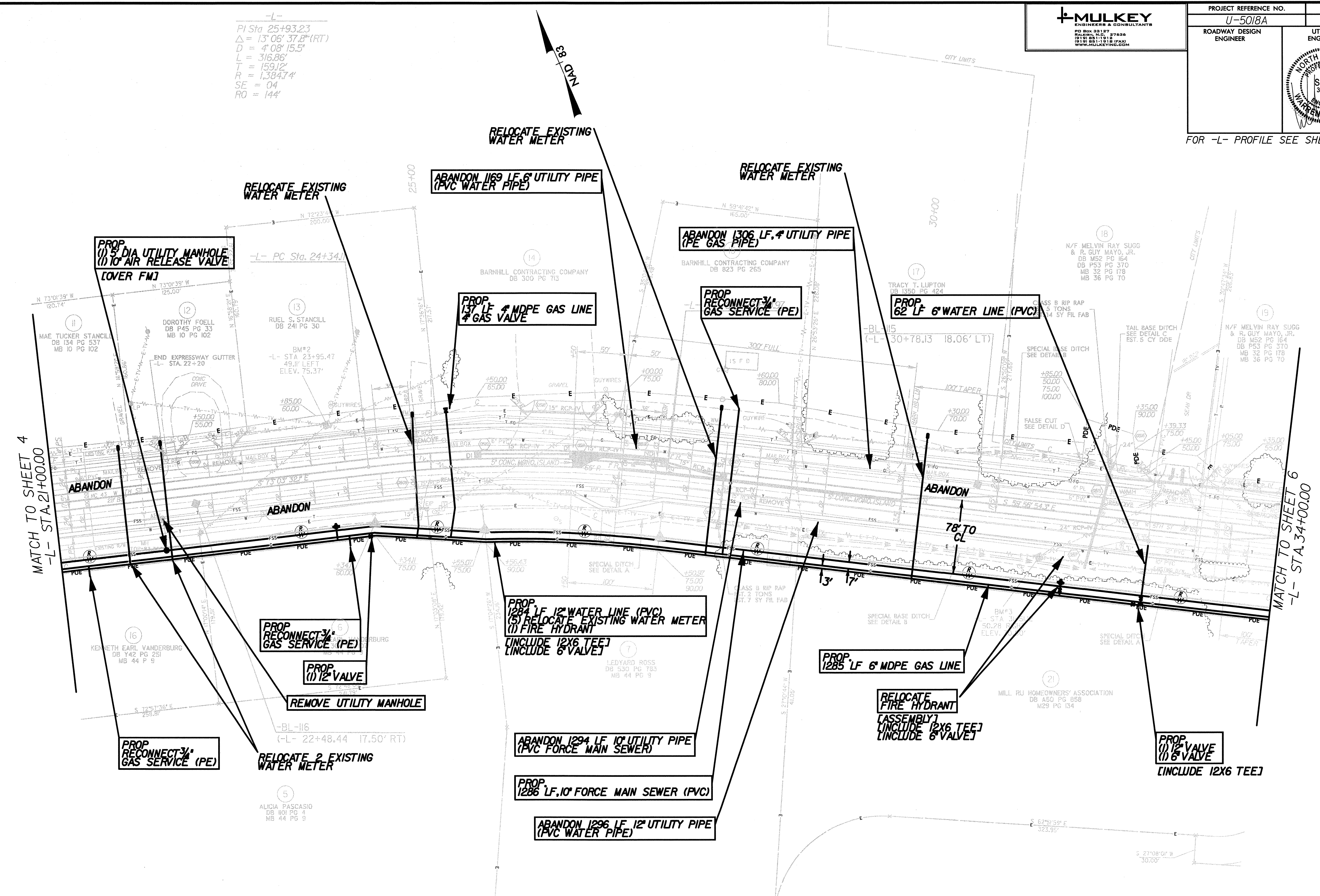
5/28/99
 REVISIONS
 RIGHT OF WAY REVISION 21709
 ADDED PERMANENT UTILITY EASEMENT TO PARCEL NOS. 5, 6 AND 16.
 \P\Projects\SECTION AN\Utility Coordination Plots\UC Plans\U5018A_UC5.dgn

-L-
 PI Sta 25+93.23
 $\Delta = 13' 06" 37.8" (RT)$
 $D = 4' 08" 15.5"$
 $L = 316.86'$
 $T = 159.12'$
 $R = 1,384.74'$
 $SE = 04'$
 $RO = 144'$

PROJECT REFERENCE NO. U-5018A		SHEET NO. UC-5	
ROADWAY DESIGN ENGINEER		UTILITY ENGINEER	



FOR -L- PROFILE SEE SHEET 9



5/28/99

MULKEY
ENGINEERS & CONSULTANTS
PO Box 38127
Raleigh, N.C. 27636
919 851-1918
919 851-1918 (FAX)
WWW.MULKEYING.COM

PROJECT REFERENCE NO. U-5018A	SHEET NO. UC-6
ROADWAY DESIGN ENGINEER	UTILITY ENGINEER

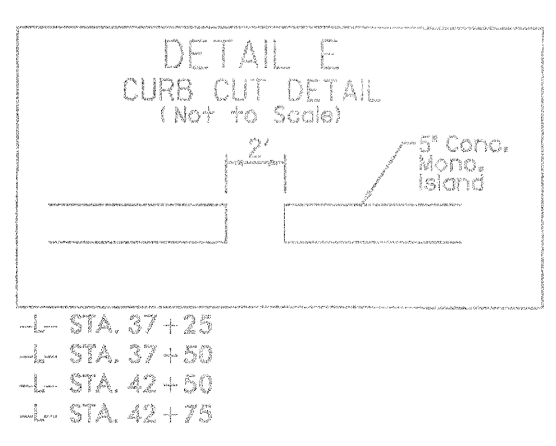
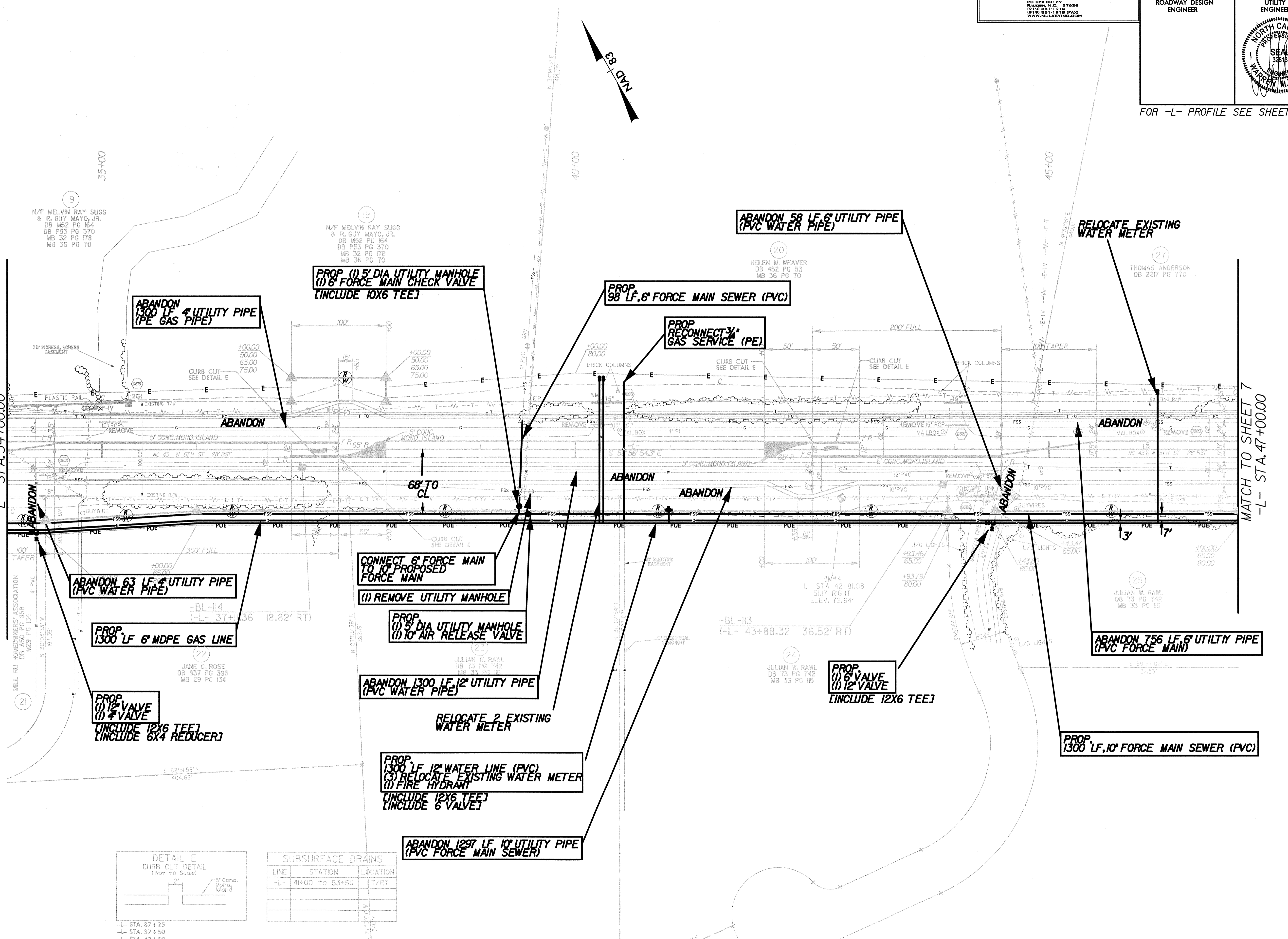
FOR -L- PROFILE SEE SHEET 10



REVISIONS

MATCH TO SHEET 5
-L- STA. 34+00.00

MATCH TO SHEET 7
-L- STA. 47+00.00



SUBSURFACE DRAINS

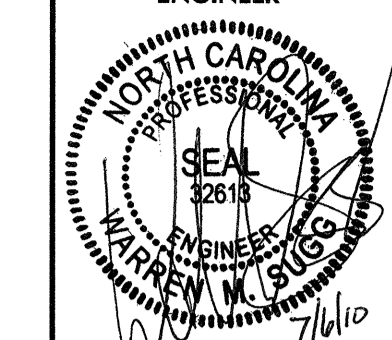
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-L-	41+00 to 53+50	LT/RT

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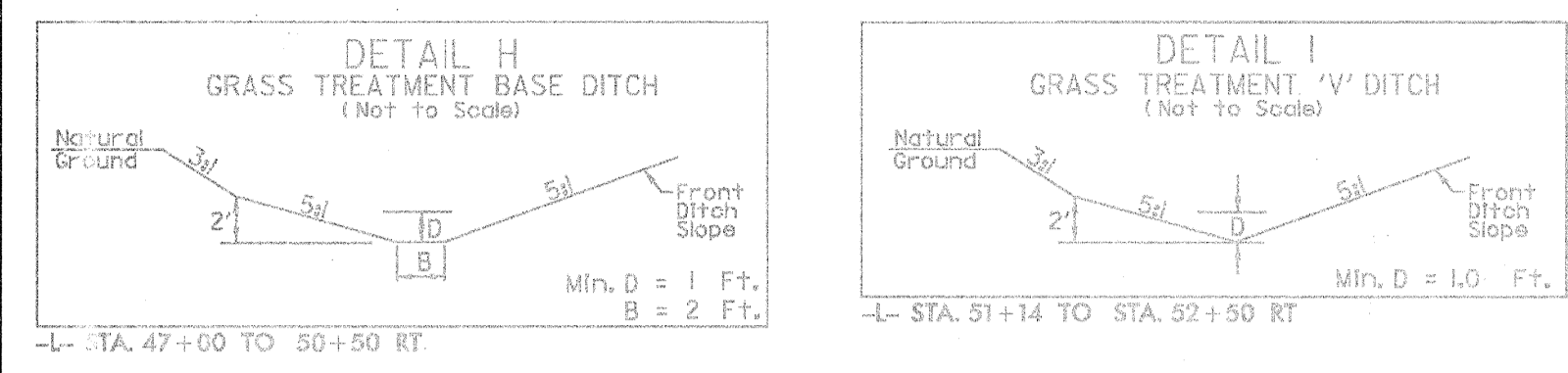
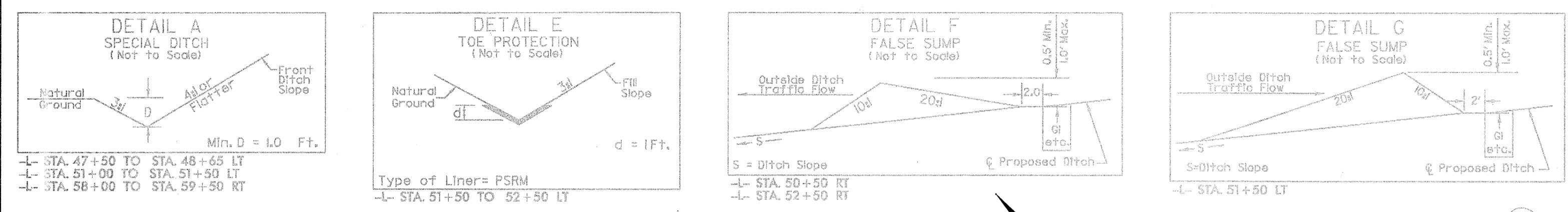
5/28/99
 REVISIONS
 SECTION A Utility Coordination Plot
 U:\C Plans\U5018A_UC1.dgn
 5/28/99



PROJECT REFERENCE NO. U-5018A	SHEET NO. UC-7
ROADWAY DESIGN ENGINEER	UTILITY ENGINEER



FOR -L- PROFILE SEE SHEET 10

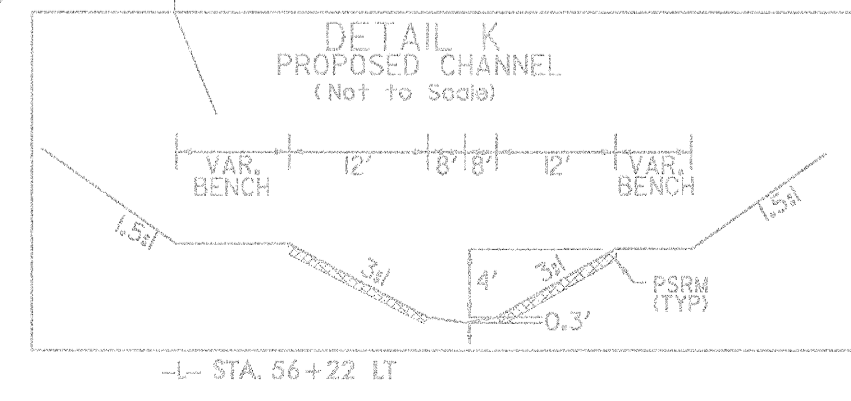
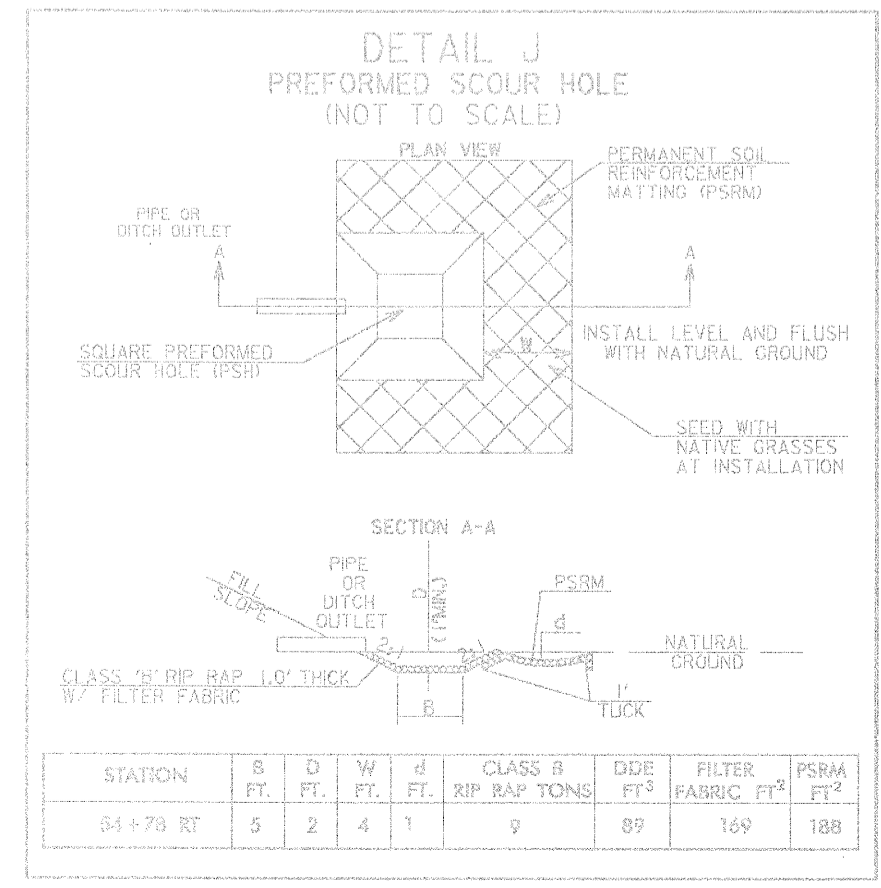
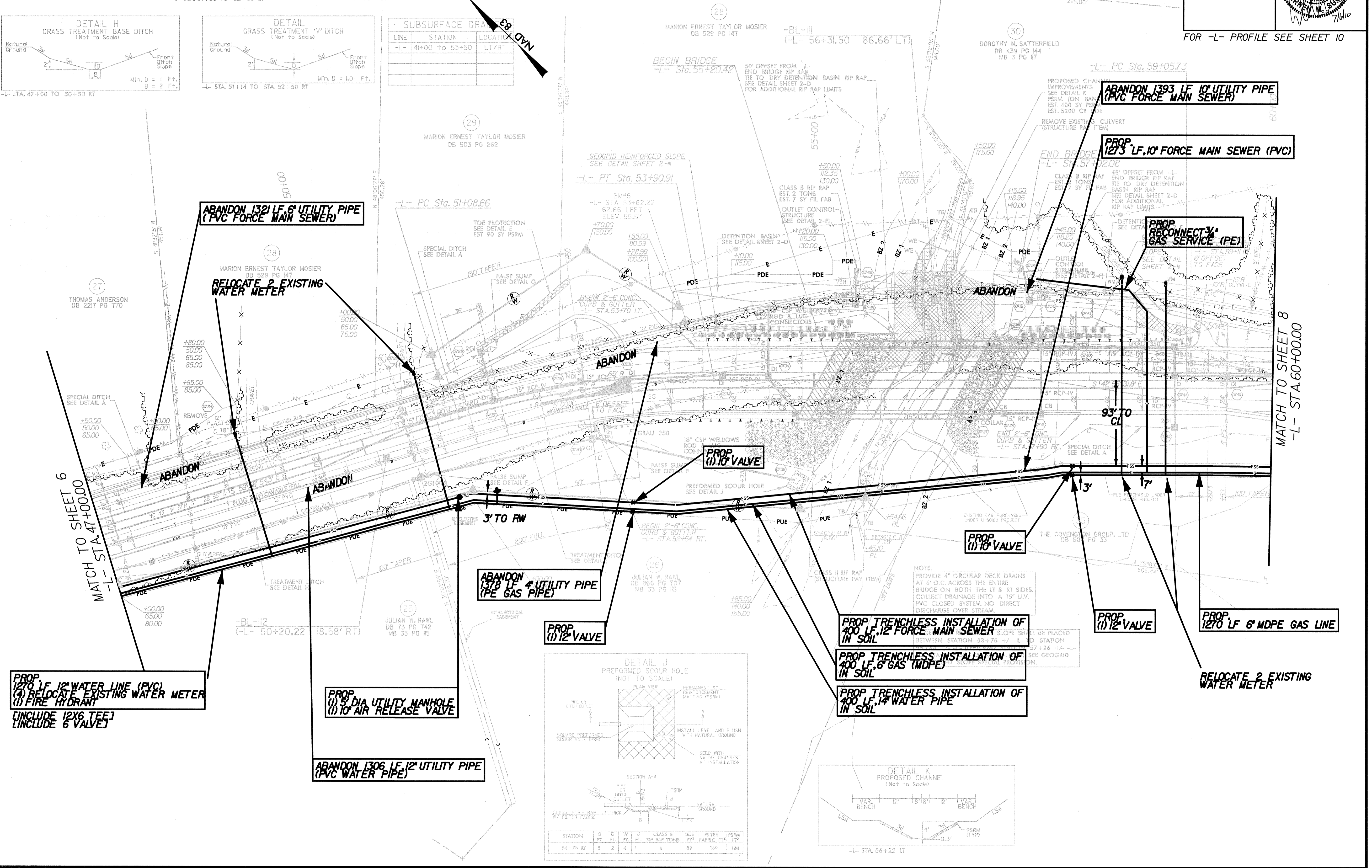


SUBSURFACE DRAIN

LINE	STATION	LOCATION
-L-	41+00 TO 53+50	LT/RT

PI Sta 52+50.83
 $\Delta = 17' 01" 22.4" (RT)$
 $D = 6' 01" 52.1"$
 $L = 282.25'$
 $T = 142.17'$
 $R = 950.00'$
 $SE = 04'$
 $RO = 144'$

PI Sta 61+27.90
 $\Delta = 5' 09' 00.9" (RT)$
 $D = 1' 09' 35.4"$
 $L = 444.05'$
 $T = 222.17'$
 $R = 4940.00'$
 $SE = 02'$
 $RO = 72'$



STATION	S	D	W	H	CLASS R	DDE	FILTER	PSRM
	FT.	FT.	FT.	FT.	RIP RAP (TONS)	FT.	FABRIC, FT ²	FT ²
54+79 RT	5	2	4	1	9	89	169	188

MATCH TO SHEET 8
 -L- STA.60+00.00

MATCH TO SHEET 6
 -L- STA.47+00.00

PROP. 1270 LF 12" WATER LINE (PVC)
 (4) RELOCATE EXISTING WATER METER
 (1) FIRE HYDRANT
 [INCLUDE 12X6 TEE]
 [INCLUDE 6 VALVE]

PROP. (1) 3" DIA UTILITY MANHOLE
 (1) 10" AIR RELEASE VALVE

ABANDON 1306 LF 12" UTILITY PIPE
 (PVC WATER PIPE)

ABANDON 1378 LF 4" UTILITY PIPE
 (PE GAS PIPE)

PROP. (1) 12" VALVE

PROP. (1) 10" VALVE

PROP. (1) 10" VALVE

PROP. TRENCHLESS INSTALLATION OF
 400 LF 12" FORCE MAIN SEWER
 IN SOIL

PROP. TRENCHLESS INSTALLATION OF
 400 LF 6" GAS (MDPE)
 IN SOIL

PROP. TRENCHLESS INSTALLATION OF
 400 LF 1 1/4" WATER PIPE
 IN SOIL

PROP. (1) 12" VALVE

PROP. 1270 LF 6" MDPE GAS LINE

RELOCATE 2 EXISTING
 WATER METER

PROP. 1273 LF, 10" FORCE MAIN SEWER (PVC)

PROP. RECONNECT 3/4" GAS SERVICE (PE)

ABANDON 1321 LF 6" UTILITY PIPE
 (PVC FORCE MAIN SEWER)

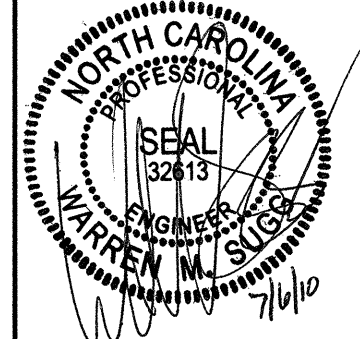
RELOCATE 2 EXISTING
 WATER METER

ABANDON 1393 LF 10" UTILITY PIPE
 (PVC FORCE MAIN SEWER)

5/28/99

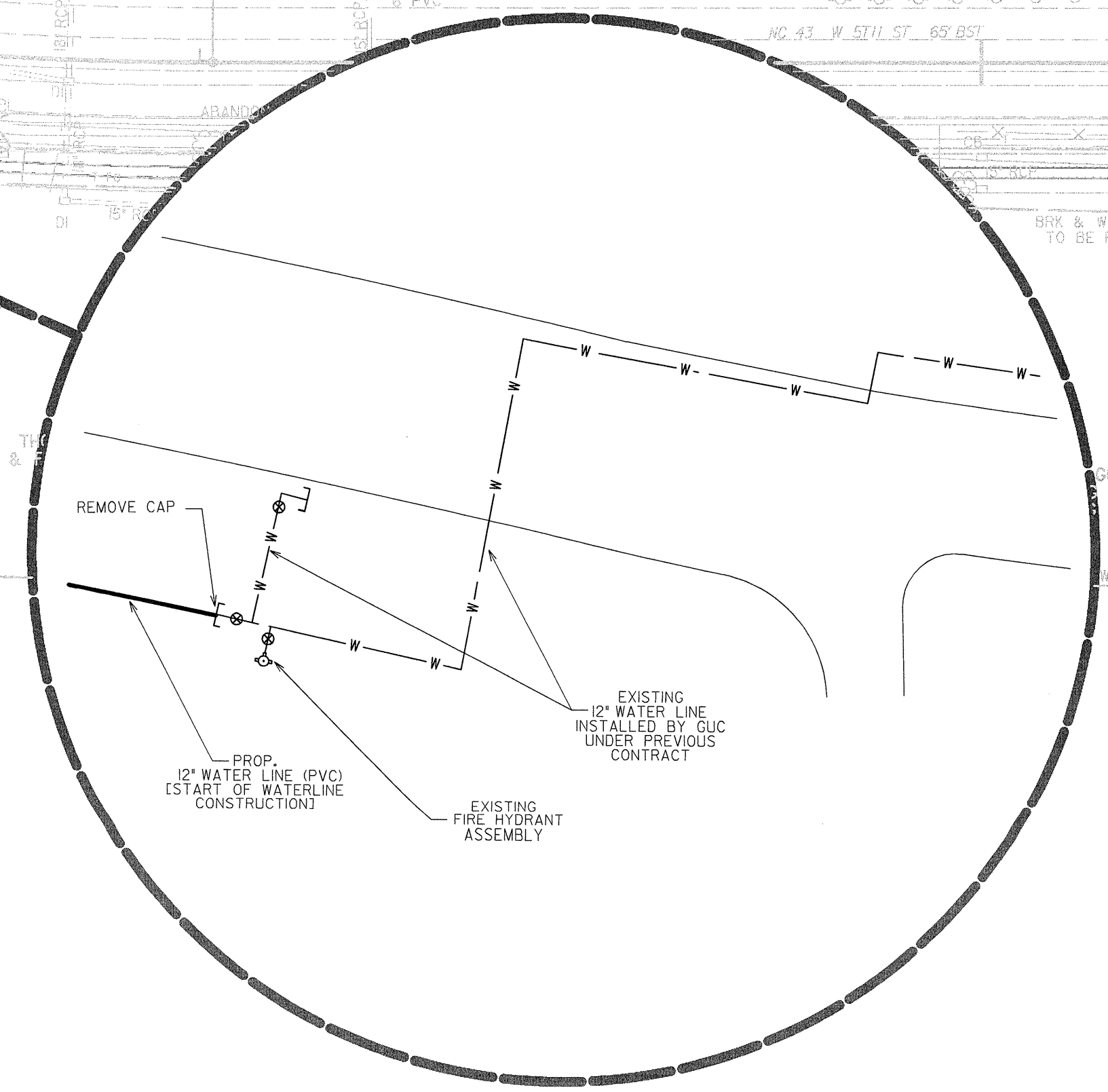
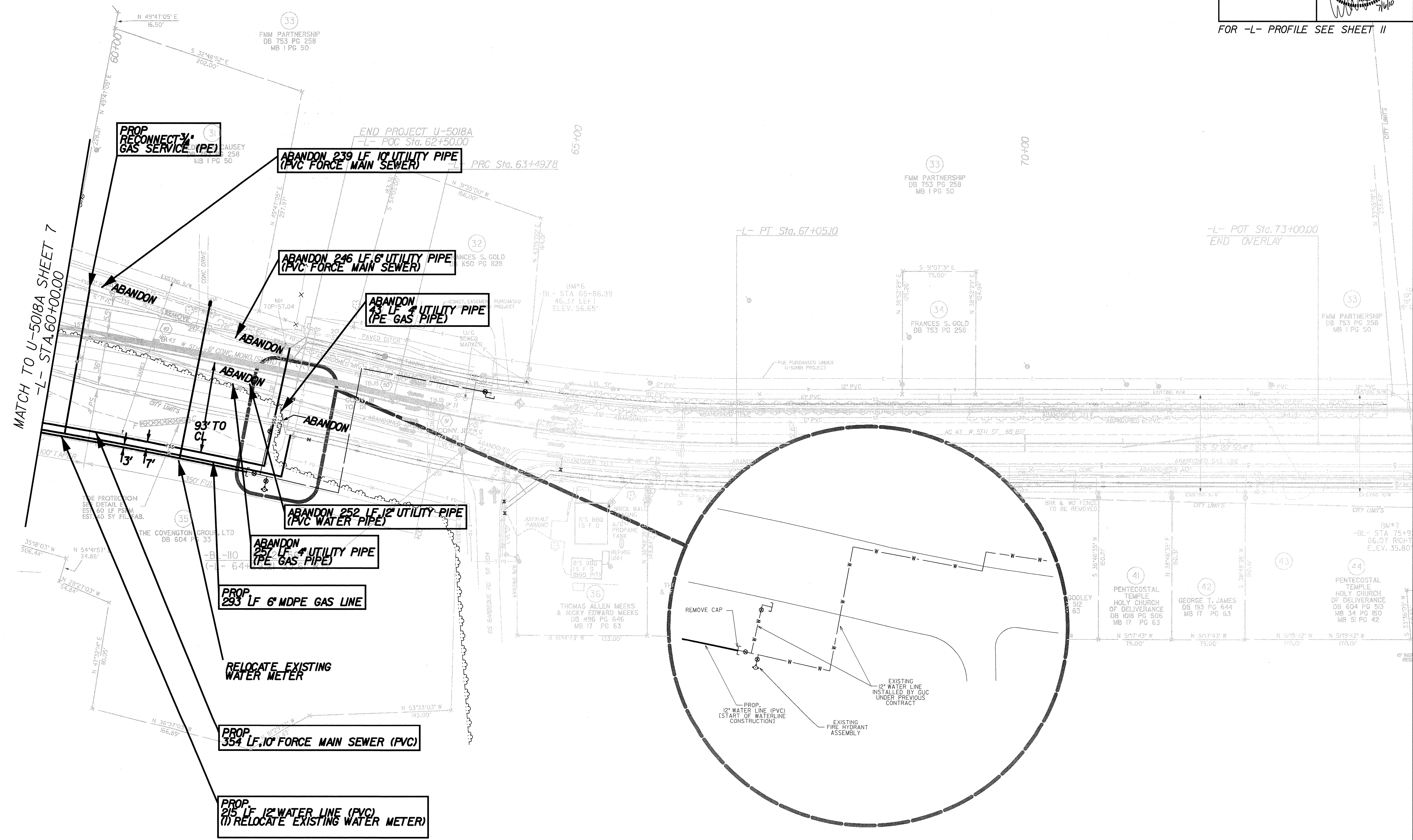
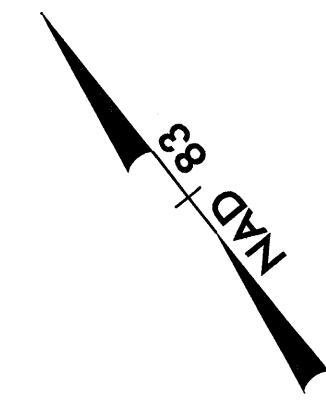


PROJECT REFERENCE NO. U-5018A		SHEET NO. UC-8	
ROADWAY DESIGN ENGINEER		UTILITY ENGINEER	



FOR -L- PROFILE SEE SHEET II

PI Sta 61+27.90 PI Sta 65+28.27
 $\Delta = 5^{\circ}09'00.9''$ (RT) $\Delta = 13^{\circ}34'19.5''$ (LT)
 $D = 1^{\circ}09'35.4''$ $D = 3^{\circ}49'11.0''$
 $L = 444.05'$ $L = 355.32'$
 $T = 222.17'$ $T = 178.49'$
 $R = 4,940.00'$ $R = 1,500.00'$
 $SE = 02$ $SE = 04$
 $RO = 72$ $RO = 144$



DETAIL WATER CONNECTION

REVISIONS

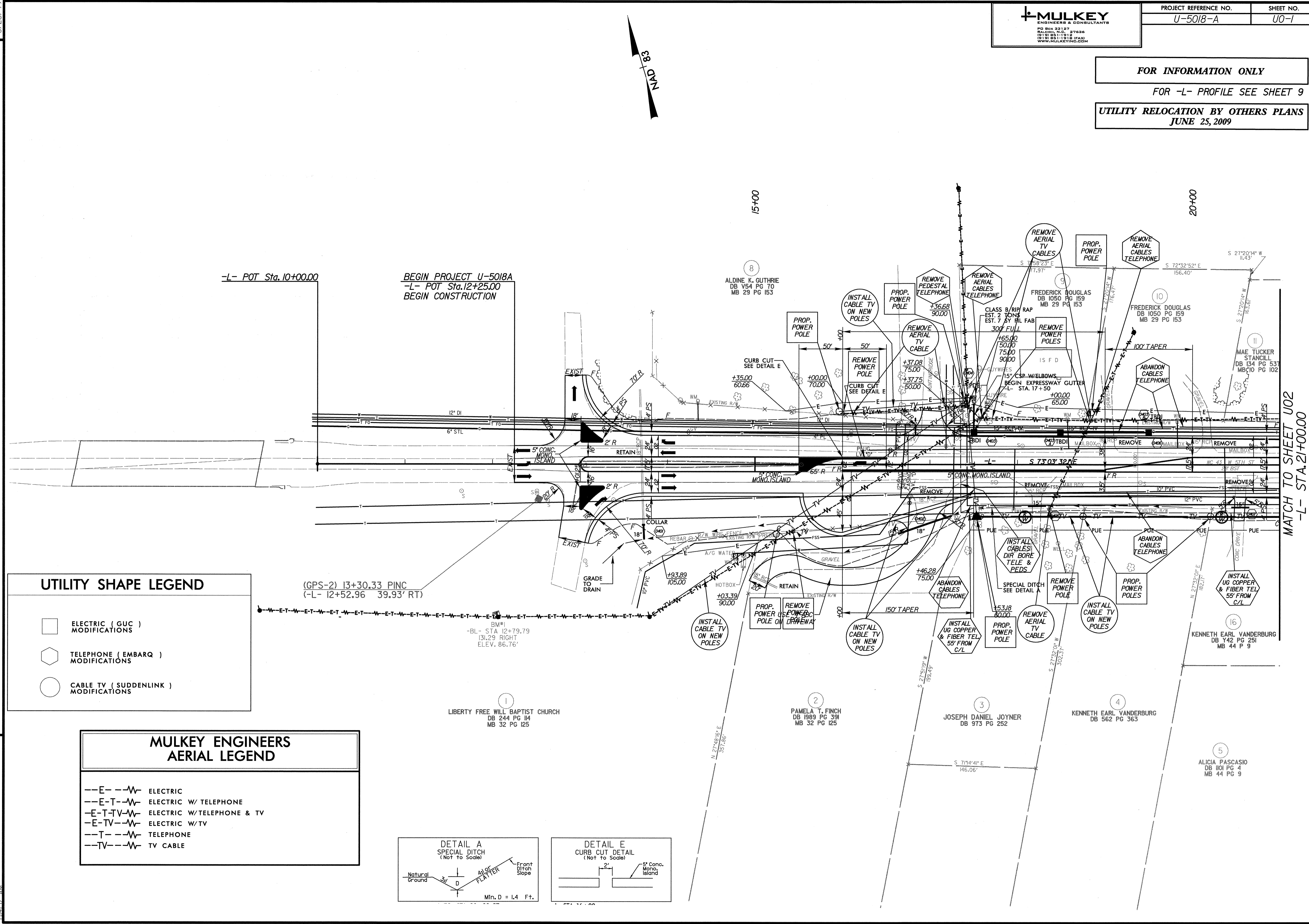
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FOR INFORMATION ONLY
FOR -L- PROFILE SEE SHEET 9
UTILITY RELOCATION BY OTHERS PLANS
JUNE 25, 2009

5/28/09

REVISIONS

6/4/2009
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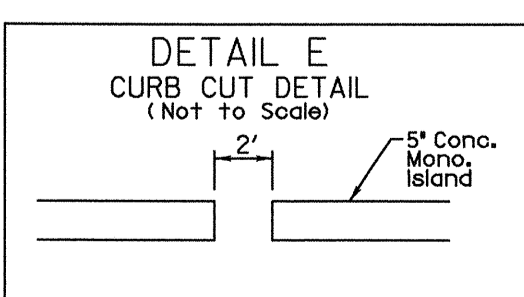
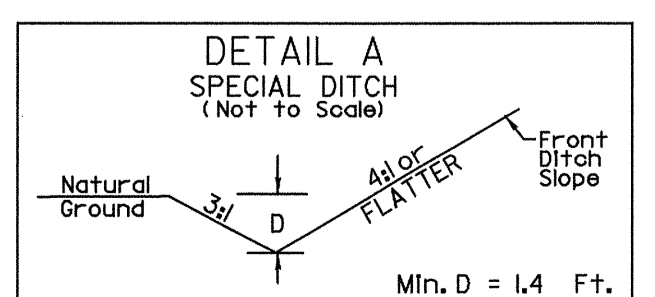


UTILITY SHAPE LEGEND

- ELECTRIC (GUC) MODIFICATIONS
- TELEPHONE (EMBARQ) MODIFICATIONS
- CABLE TV (SUDDENLINK) MODIFICATIONS




MULKEY ENGINEERS AERIAL LEGEND

- E---W ELECTRIC
- E-T---W ELECTRIC W/ TELEPHONE
- E-T-TV---W ELECTRIC W/TELEPHONE & TV
- E-TV---W ELECTRIC W/TV
- T---W TELEPHONE
- TV---W TV CABLE

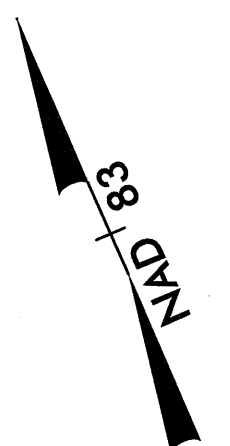


MATCH TO SHEET U02
-L- STA.21+00.00

UTILITY SHAPE LEGEND

-  ELECTRIC (GUC) MODIFICATIONS
-  TELEPHONE (EMBARQ) MODIFICATIONS
-  CABLE TV (SUDDENLINK) MODIFICATIONS

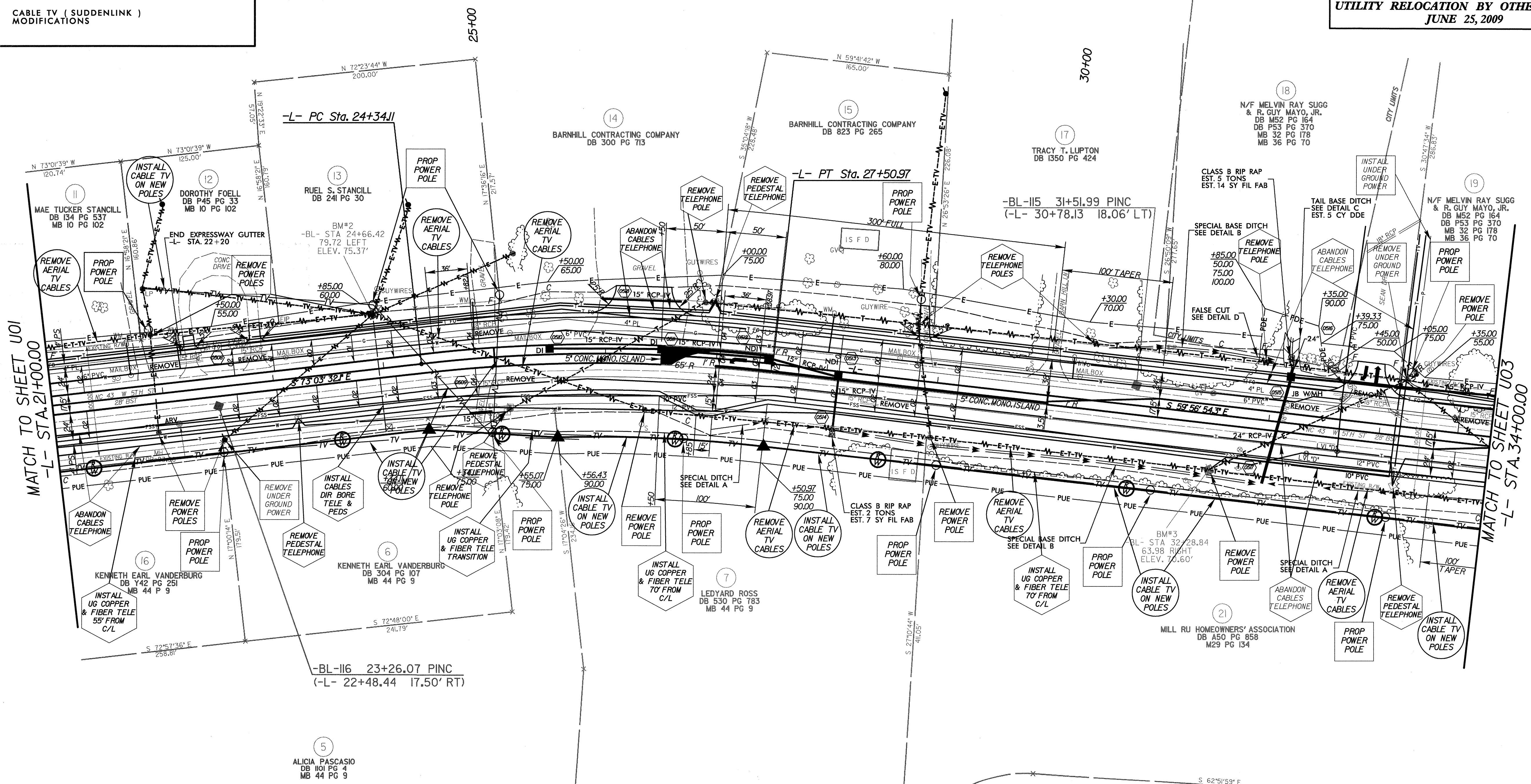
-L-
PI Sta 25+93.23
 $\Delta = 13' 06" 37.8" (RT)$
 $D = 4' 08" 15.5"$
 $L = 316.86'$
 $T = 159.12'$
 $R = 1,384.74'$
 $SE = 04$
 $RO = 144'$



FOR INFORMATION ONLY

FOR -L- PROFILE SEE SHEET 9



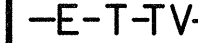



UTILITY RELOCATION BY OTHERS PLANS
JUNE 25, 2009

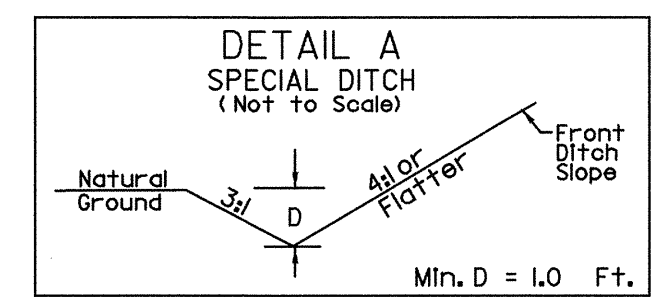


MATCH TO SHEET U01
-L- STA. 21+00.00

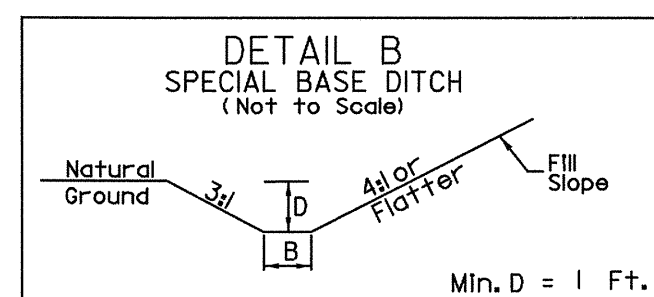
MATCH TO SHEET U03
-L- STA. 34+00.00

**MULKEY ENGINEERS
AERIAL LEGEND**

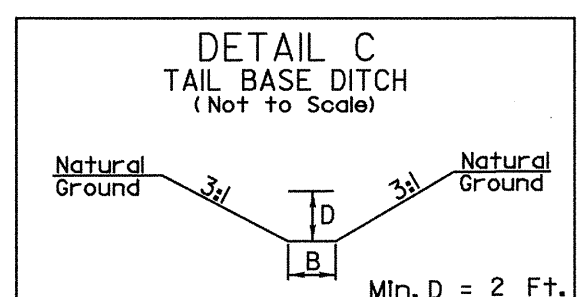
-  ELECTRIC
-  ELECTRIC W/ TELEPHONE
-  ELECTRIC W/ TELEPHONE & TV
-  ELECTRIC W/ TV
-  TELEPHONE
-  TV CABLE



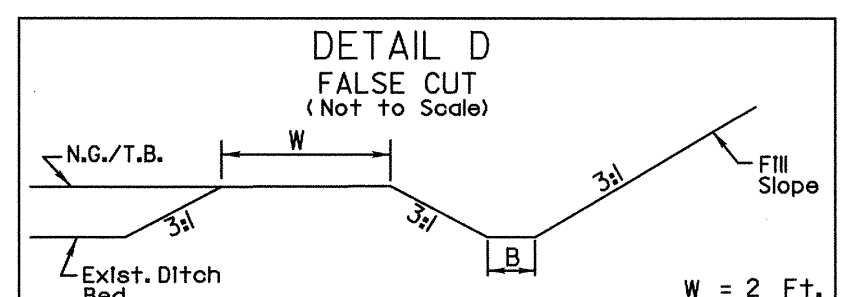
-L- STA. 27+00 TO STA. 28+00 RT
-L- STA. 32+00 TO STA. 34+00 RT



-L- STA. 28+00 TO 32+00 RT
-L- STA. 30+50 TO 31+75 LT



-L- STA. 32+16 LT



-L- STA. 31+75 TO 32+16 LT

REVISIONS

6/4/2010 SECTION A Utilities by others plans, BW_U5018A.ctb, U02_NEW.dgn
7:48:59 AM

MULKEY ENGINEERS AERIAL LEGEND

- E--W ELECTRIC
- E-T--W ELECTRIC W/ TELEPHONE
- E-T-TV--W ELECTRIC W/ TELEPHONE & TV
- E-TV--W ELECTRIC W/ TV
- T--W TELEPHONE
- TV--W TV CABLE

UTILITY SHAPE LEGEND

- ELECTRIC (GUC) MODIFICATIONS
- TELEPHONE (EMBARQ) MODIFICATIONS
- CABLE TV (SUDDENLINK) MODIFICATIONS

MULKEY
ENGINEERS & CONSULTANTS
PO BOX 32127
RALEIGH, N.C. 27636
919 851-1918 FAX
919 851-1918 (RADIO)
WWW.MULKEYING.COM

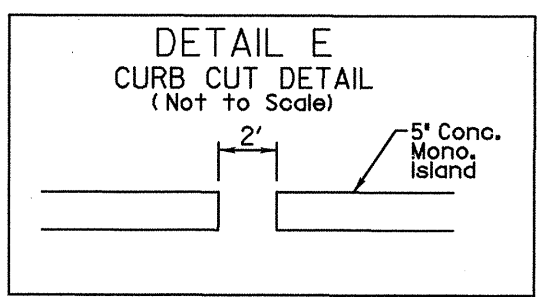
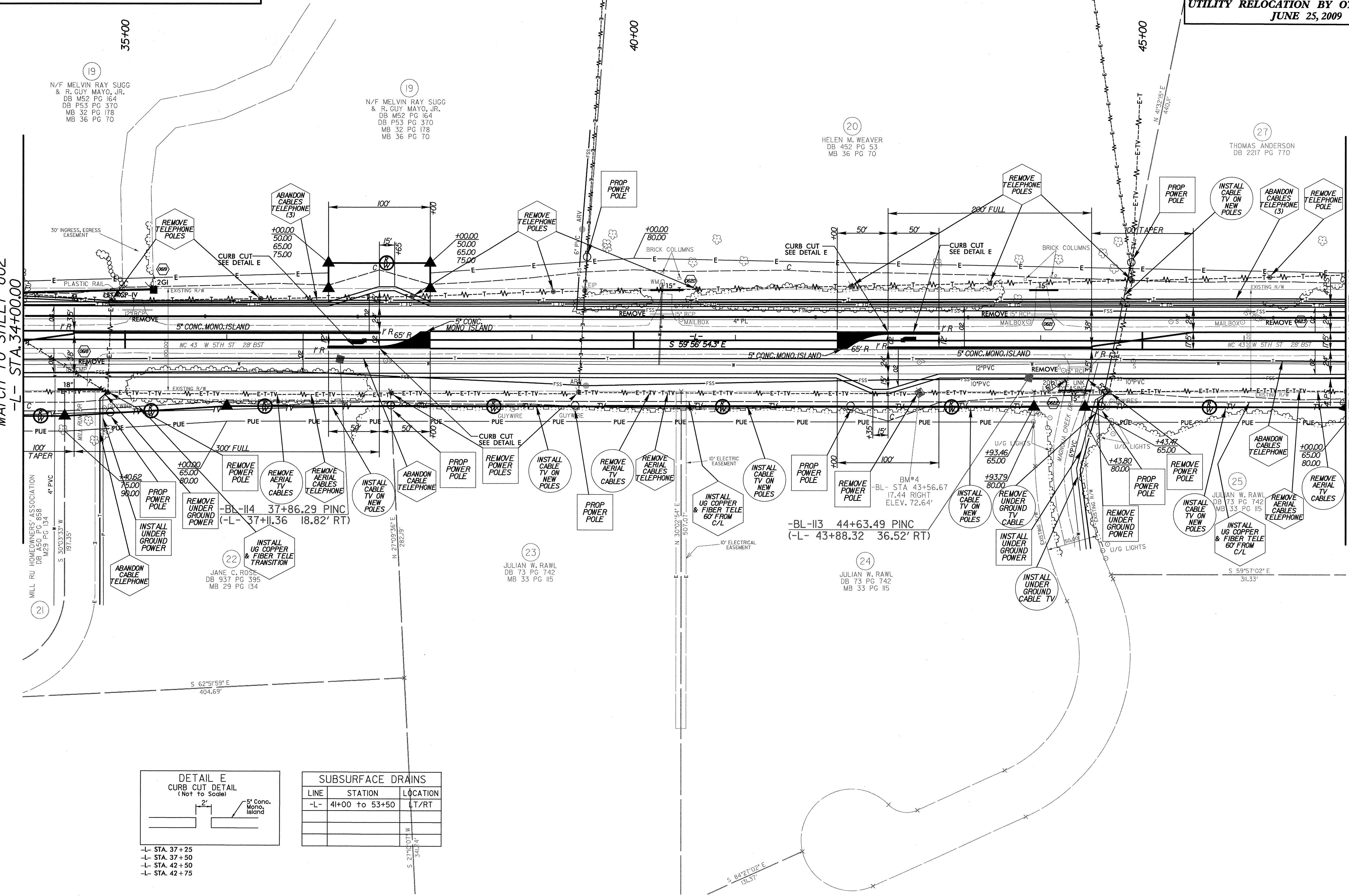
FOR INFORMATION ONLY

FOR -L- PROFILE SEE SHEET 10

**UTILITY RELOCATION BY OTHERS PLANS
JUNE 25, 2009**

MATCH TO SHEET U02
-L- STA. 34+00.00

MATCH TO SHEET U04
-L- STA. 47+00.00



SUBSURFACE DRAINS

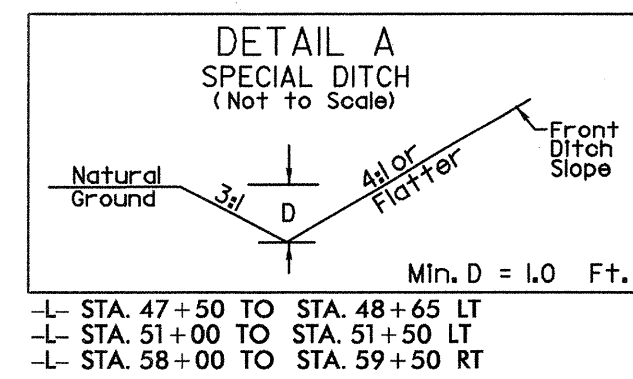
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-L-	41+00 to 53+50	LT/RT

- L- STA. 37+25
- L- STA. 37+50
- L- STA. 42+50
- L- STA. 42+75

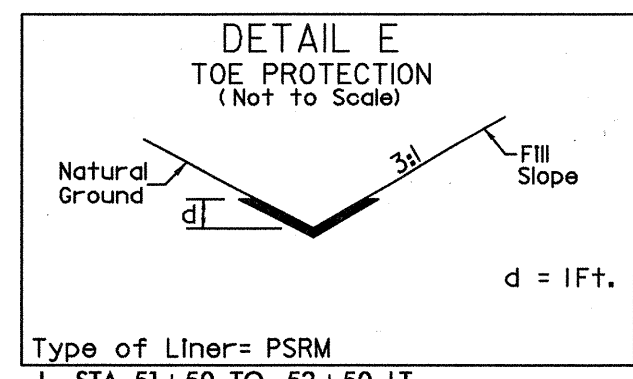
REVISIONS

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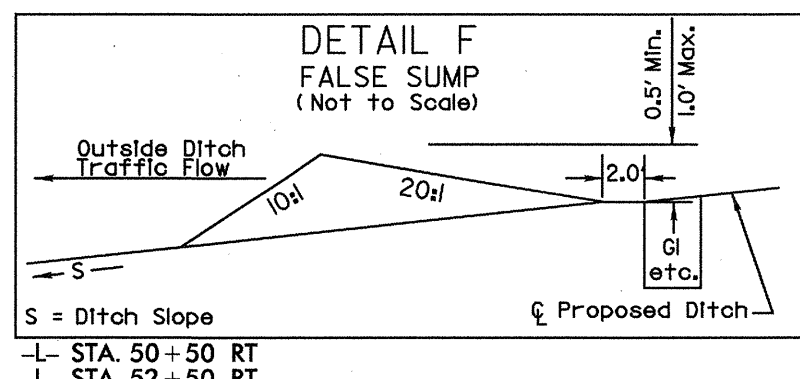
5/28/99



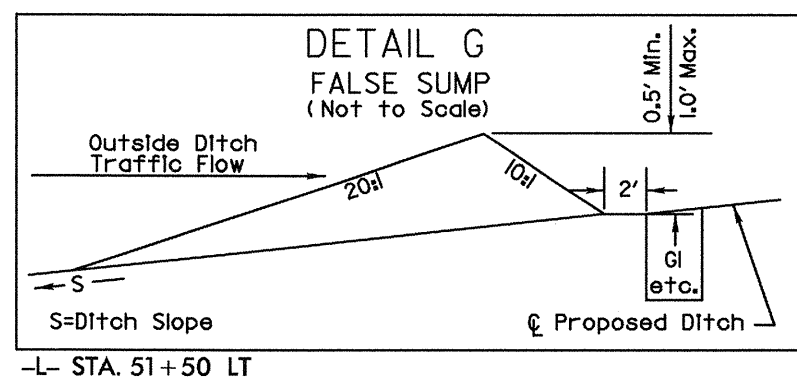
-L- STA. 47+50 TO STA. 48+65 LT
 -L- STA. 51+00 TO STA. 51+50 LT
 -L- STA. 58+00 TO STA. 59+50 RT



Type of Liner: PSRM
 -L- STA. 51+50 TO 52+50 LT



-L- STA. 50+50 RT
 -L- STA. 52+50 RT



-L- STA. 51+50 LT

PI Sta 52+50.83
 $\Delta = 17^{\circ} 01' 22.4''$ (RT)
 $D = 6' 01.52''$
 $L = 282.25'$
 $T = 142.17'$
 $R = 950.00'$
 $SE = 04$
 $RO = 144'$

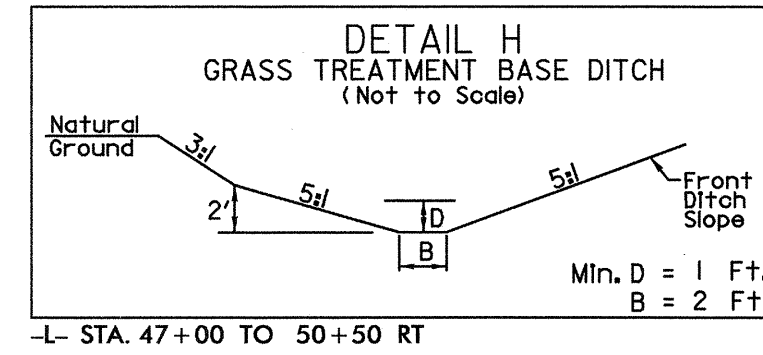
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 $L = 444.05'$
 $T = 222.17'$
 $R = 4940.00'$
 $SE = 02$
 $RO = 72'$



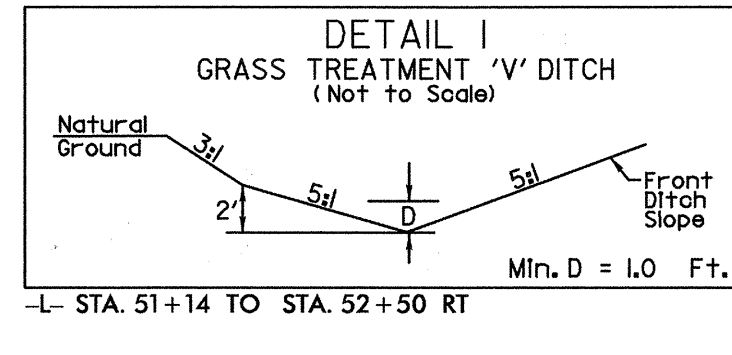
PROJECT REFERENCE NO. U-5018-A
 SHEET NO. U0-4

FOR INFORMATION ONLY

FOR -L- PROFILE SEE SHEET 10
 UTILITY RELOCATION BY OTHERS PLANS
 JUNE 25, 2009

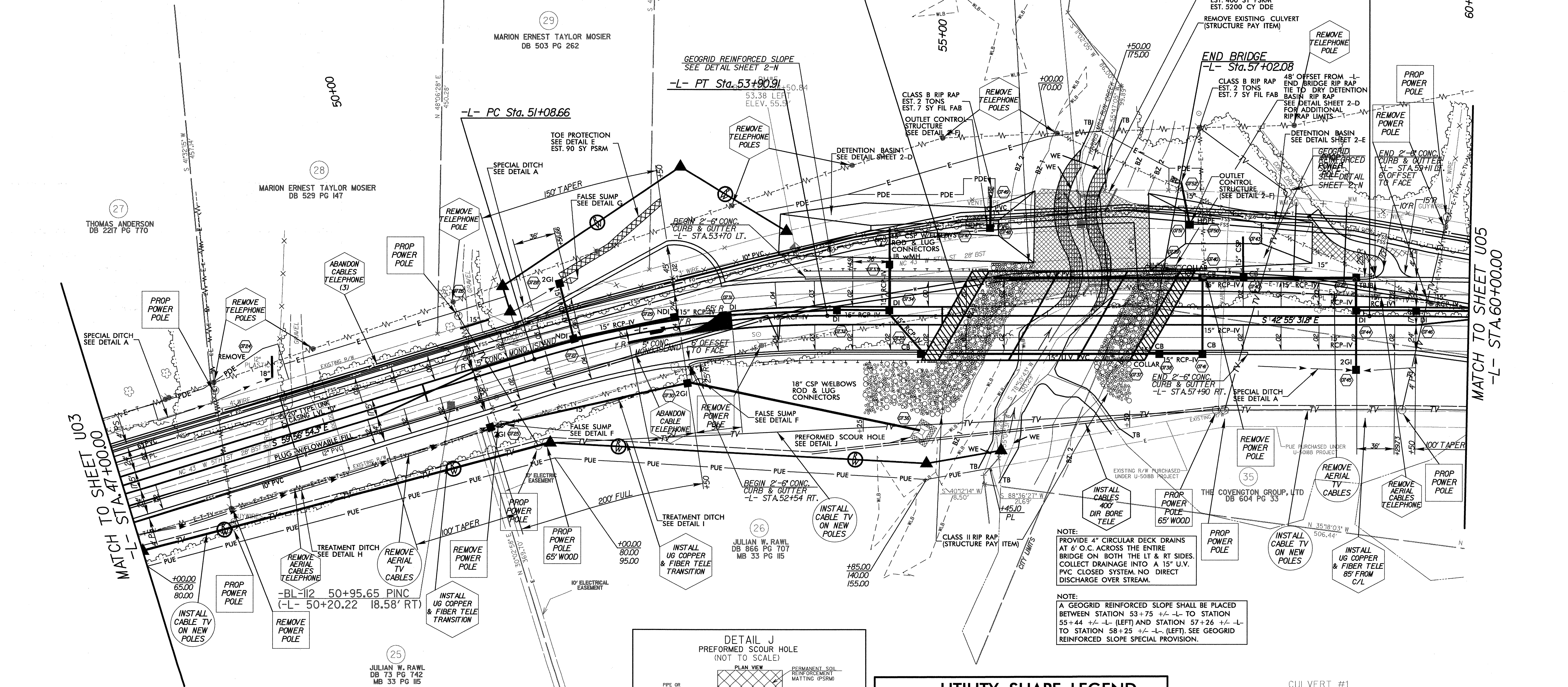


-L- STA. 47+00 TO 50+50 RT



-L- STA. 51+14 TO STA. 52+50 RT

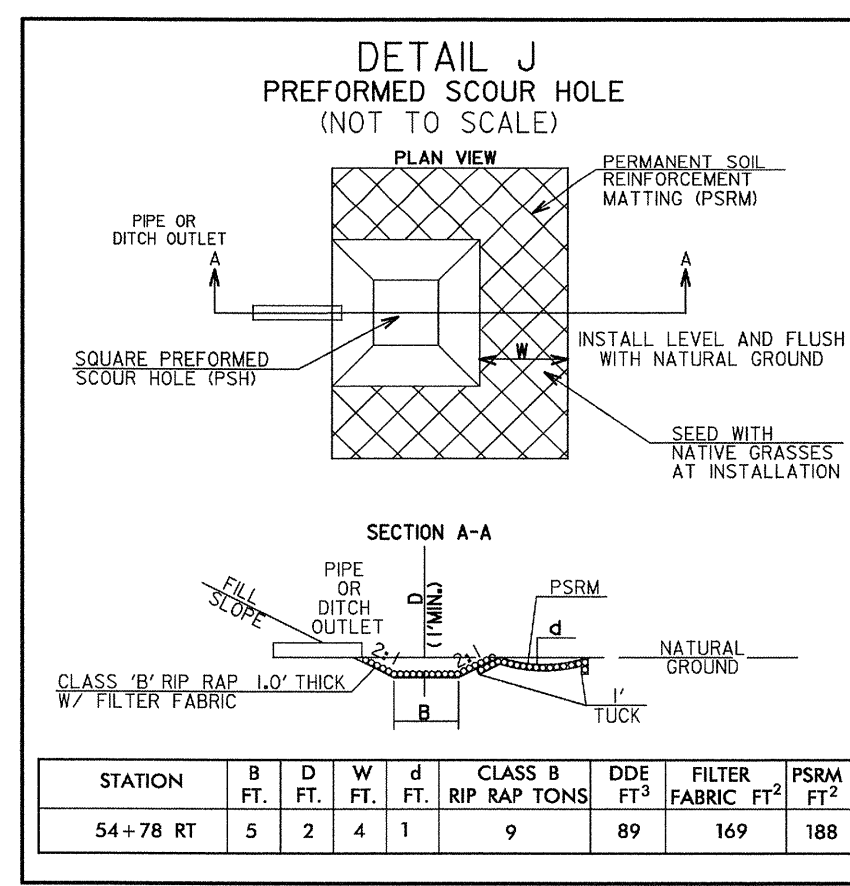
LINE	STATION	LOCATION
-L-	41+00 TO 53+50	LT/RT



REVISIONS

MULKEY ENGINEERS AERIAL LEGEND

- E---W ELECTRIC
- E-T---W ELECTRIC W/ TELEPHONE
- E-T-TV---W ELECTRIC W/ TELEPHONE & TV
- E-TV---W ELECTRIC W/ TV
- T---W TELEPHONE
- TV---W TV CABLE



UTILITY SHAPE LEGEND

- ELECTRIC (GUC) MODIFICATIONS
- TELEPHONE (EMARQ) MODIFICATIONS
- CABLE TV (SUDDENLINK) MODIFICATIONS

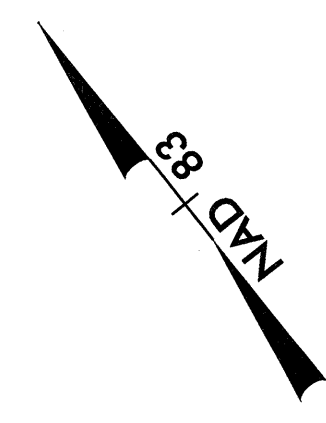
CULVERT #1 TWO BARRELS

	NORTH	EAST	ELEV.
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CUL2	685530.15	2469890.67	20.69
CUL3	685529.99	2469891.04	19.72
CUL4	685524.26	2469896.73	19.56
CE1			30.47
HW1			30.47
CUL5	685470.46	2469826.00	19.78
CUL6	685464.44	2469833.36	19.59
CUL7	685464.21	2469833.60	19.63
CUL8	685458.40	2469839.24	19.55
CE2			30.59
HW2			30.59

5/4/2010 10:55:25 AM SECTION A Utilities by others plans: BW_U5018A_U1_U04_NEW.dgn

5/28/99

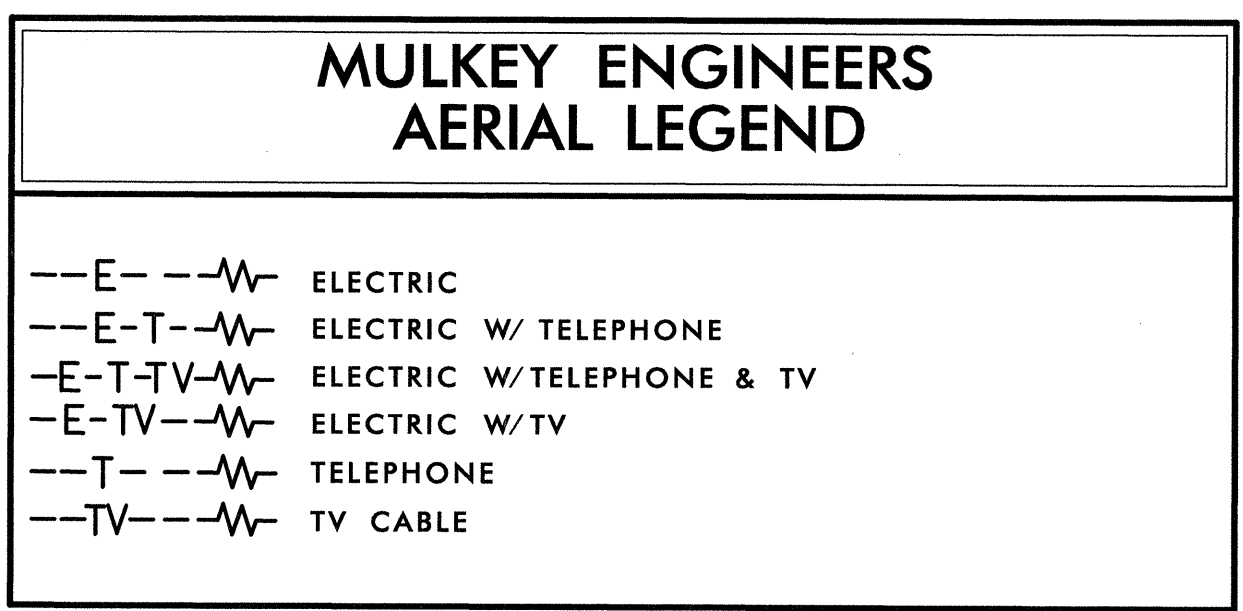
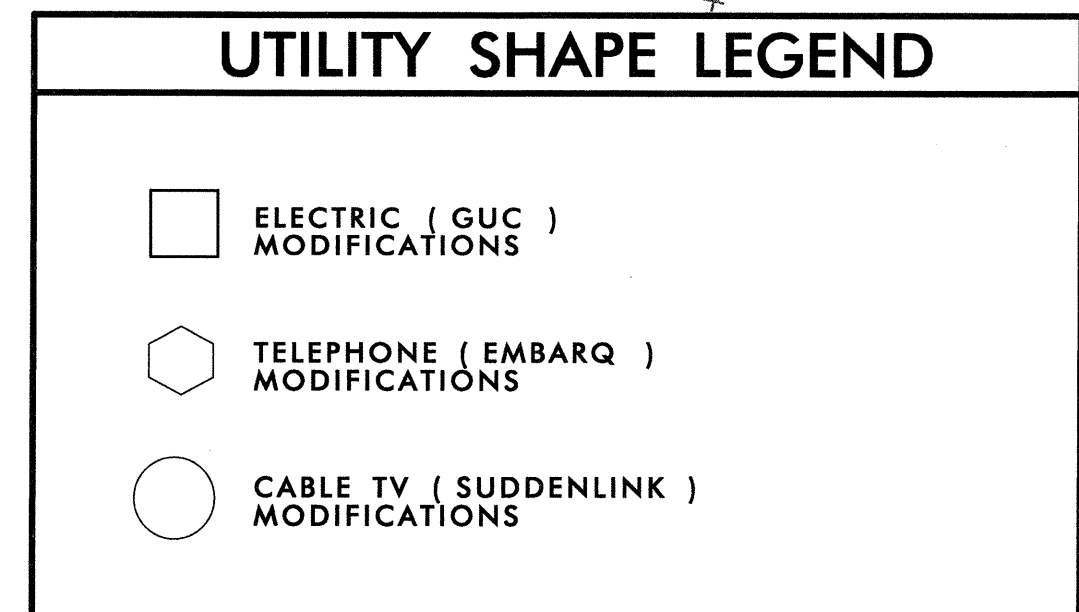
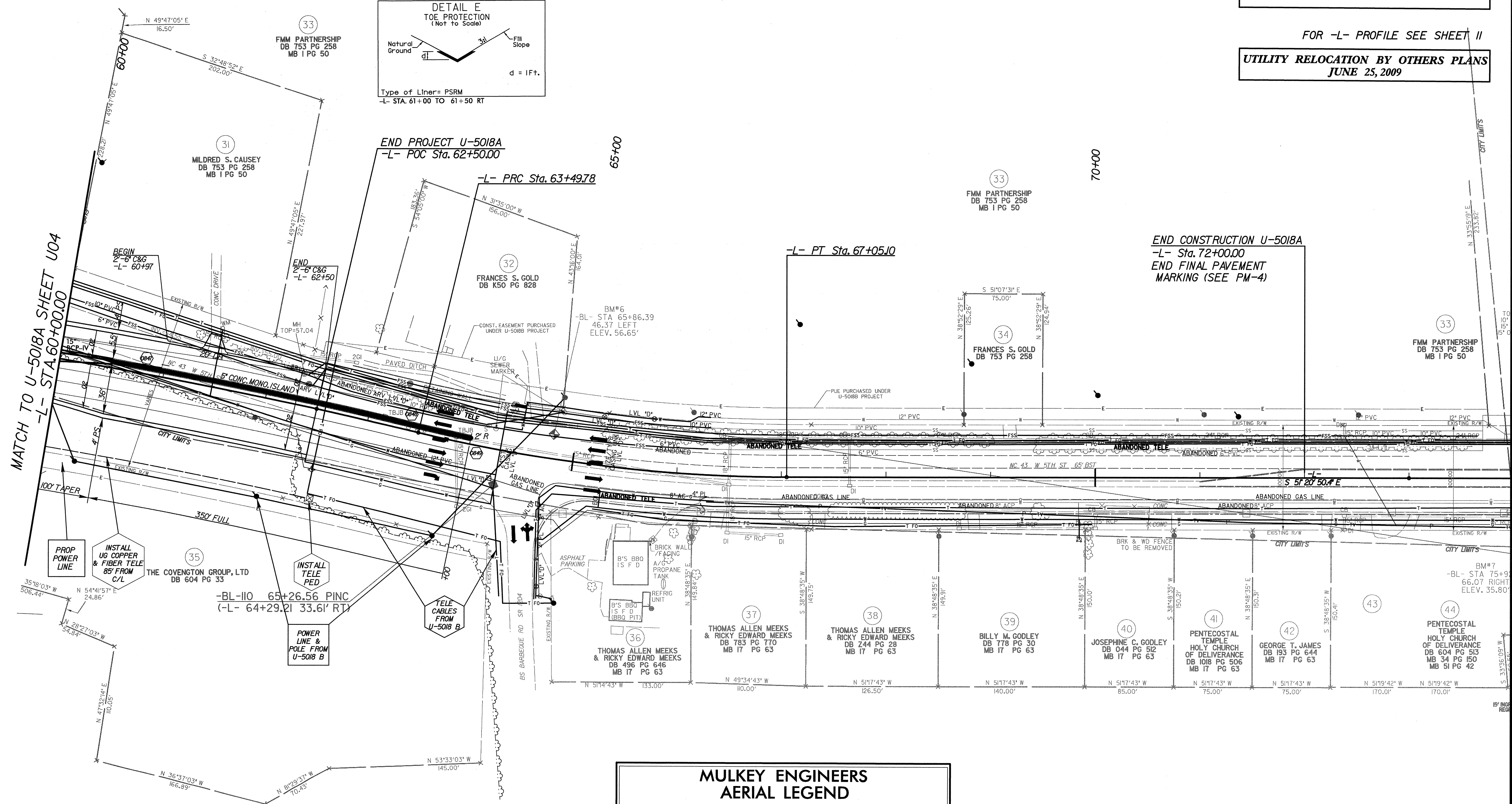
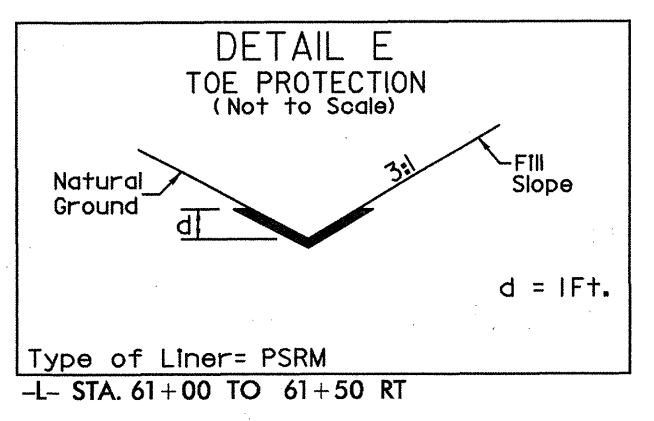
-L-
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 $D = 1^{\circ}09'35.4''$ $D = 3^{\circ}49'11.0''$
 $L = 444.05'$ $L = 355.32'$
 $T = 222.17'$ $T = 178.49'$
 $R = 4,940.00'$ $R = 1,500.00'$
 $SE = 02'$
 $RO = 72'$



FOR INFORMATION ONLY

FOR -L- PROFILE SEE SHEET II

UTILITY RELOCATION BY OTHERS PLANS
JUNE 23, 2009



REVISIONS

6/4/2009
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