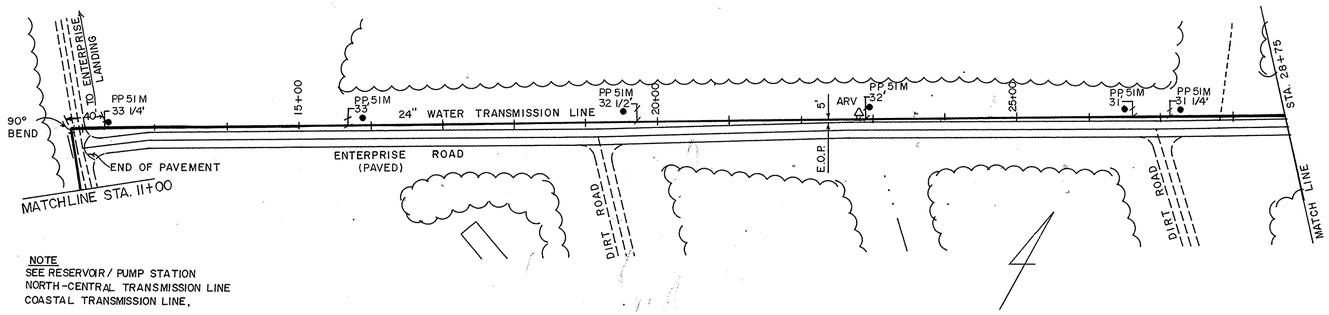
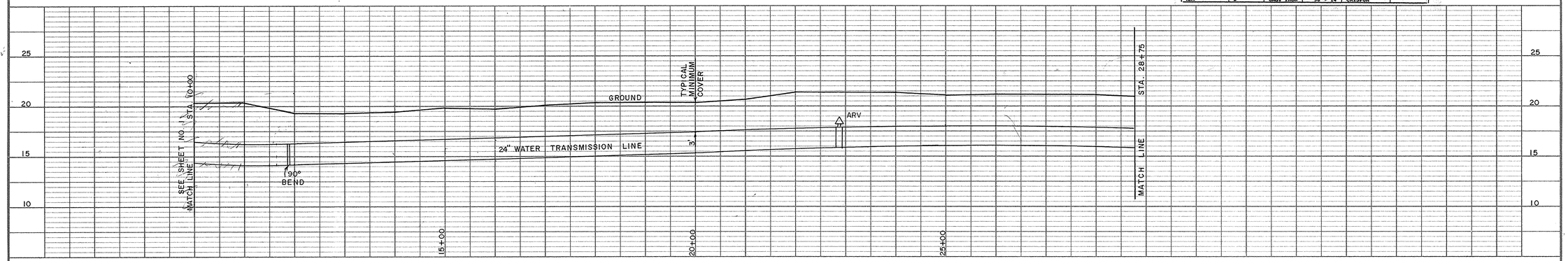


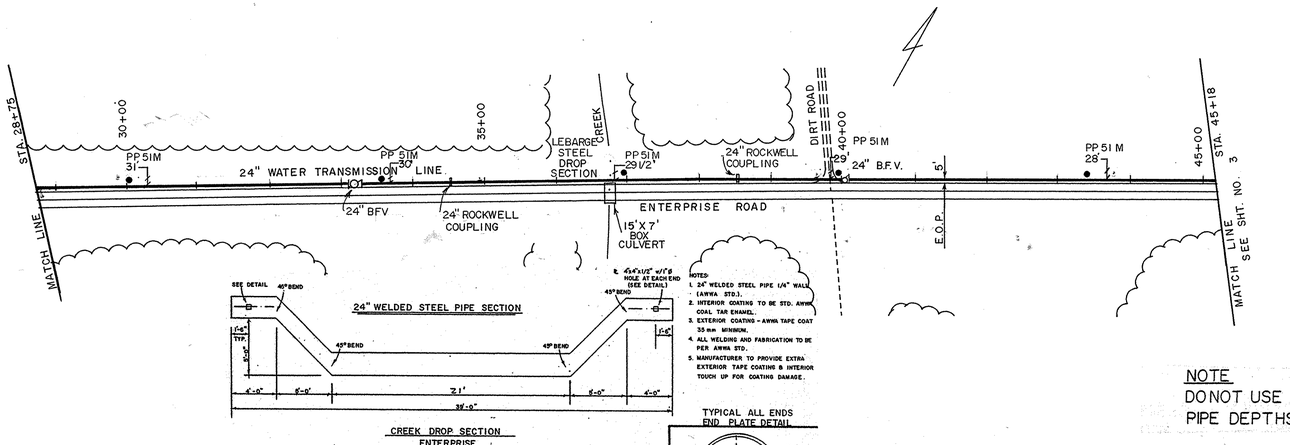
NOTE
SEE RESERVOIR / PUMP STATION
NORTH-CENTRAL TRANSMISSION LINE
COASTAL TRANSMISSION LINE.

GRAND STRAND WATER AND SEWER AUTHORITY
AS BUILT MATERIALS REPORT

160 CENTRAL SECTION 1
PAGE 1

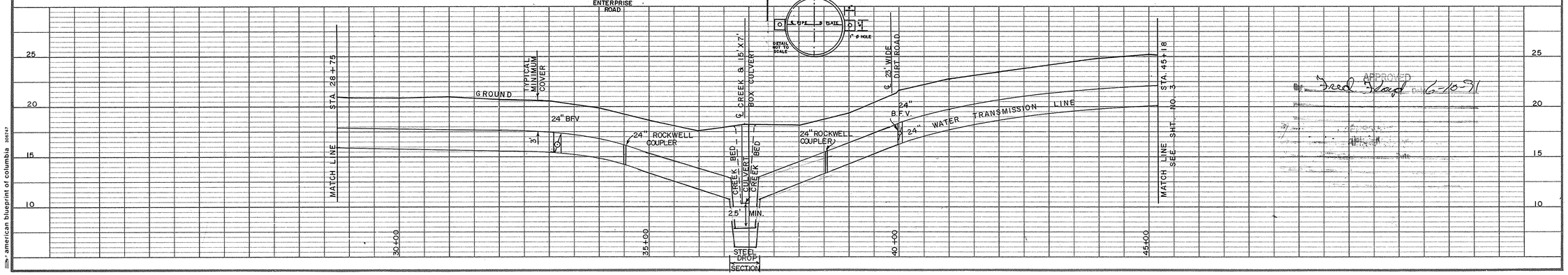
FITTING	SIZE	TYPE MATERIAL	LOCATION STATION #	MANUFACTURER	REMARKS
BFV	24"	MJ	0 + 00	AMERICAN DARLING	
TEE	24X24X24	MJ	0 + 49	TYLER	
ARV	2"	CAST IRON	5 + 35	CRISPUM	
SADDLE	24" X 2"	STAINLESS STEEL	5 + 35	ROMAC	
GATE VALVE	2"	BRASS	5 + 35	HAMMOND	
CORP STOP	2"	BRASS	5 + 35	MCD	
RCP	24"	CONCRETE TILE	5 + 35	MAD	
RING & COVER	24"	CAST IRON	5 + 35		
BFV	24"	MJ	5 + 05	AMERICAN DARLING	
90° BEND	24"	MJ	5 + 08	TYLER	
11 1/4 ° BEND	24"	MJ	5 + 12	TYLER	
90° BEND	24"	MJ	11 + 42	TYLER	
ARV	2"	CAST IRON	22 + 63	CRISPUM	
SADDLE	24" X 2"	STAINLESS STEEL	22 + 63	ROMAC	
GATE VALVE	2"	BRASS	22 + 63	HAMMOND	
CORP STOP	2"	BRASS	22 + 63	MCD	
RCP	24"	CONCRETE TILE	22 + 63	MAD	
RING & COVER	24"	CAST IRON	22 + 63		
BFV	24"	MJ	33 + 46	AMERICAN DARLING	
COUPLING	24"	MJ	34 + 61	ROCKWELL	
DROP SECTION	24"	STEEL	36 + 41	LABARGE	
COUPLING	24"	MJ	38 + 59	ROCKWELL	
BFV	24"	MJ	40 + 21	AMERICAN DARLING	
ARV	2"	CAST IRON	50 + 14	CRISPUM	





NOTE
DO NOT USE PROFILE INFORMATION SHOWN. FITTINGS, PIPE DEPTHS, & ASSOCIATED FEATURES ARE INCORRECT.

LEGEND
- A.R.V. AIR & VACUUM RELIEF VALVE
- B.F.V. BUTTERFLY VALVE
- G.V. GATE VALVE
- C.M.P. CORRUGATED METAL PIPE
- R.C.P. REINFORCED CONCRETE PIPE
- FENCE LINE
- TREE LINE
- CREEK, DITCH, WATER BODY
- POWER POLE
- PROPERTY LINE



APPROVED
Fred Richardson 6-10-91

REVISION	BY	DATE
AS - BUILT	REP	3/91

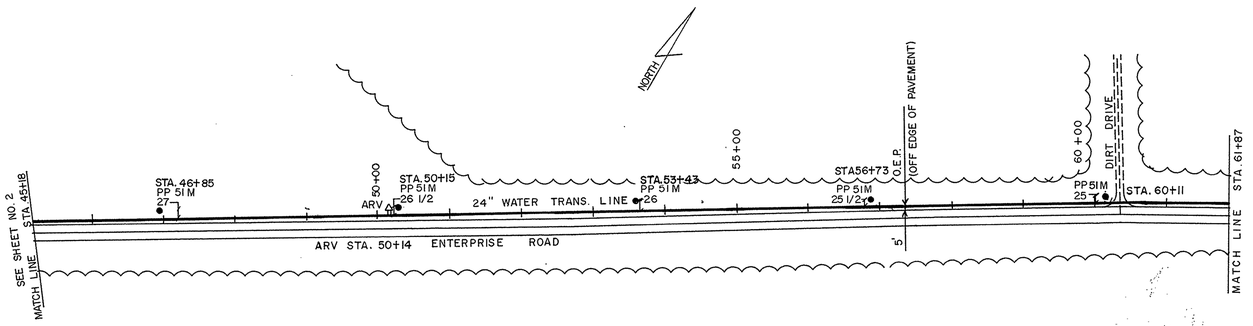
SURFACE WATER TREATMENT PROJECT
CENTRAL TRANSMISSION LINE
SECTION 1

GRAND STRAND WATER & SEWER AUTHORITY

P.O. BOX 1537, CONWAY, S.C. 29526
TELEPHONE (803) 347-4641 OR 448-1686

DATE	APRIL 1989
SCALE	HOR. 1"=100' VER 1"= 5'
DRAWN BY	ROBERT PERKINS
CHECKED BY	JIM HEMBREE
APPROVED BY	Fred Richardson
	FRED RICHARDSON P.E. NO. 9853
	SHEET 2 OF 7
DRAWING NO.	28-10-002-W

american blueprint of columbia 30647

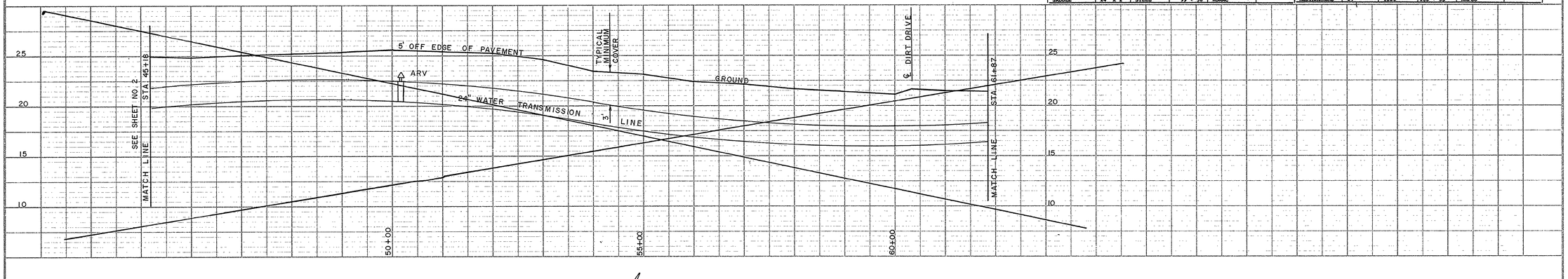


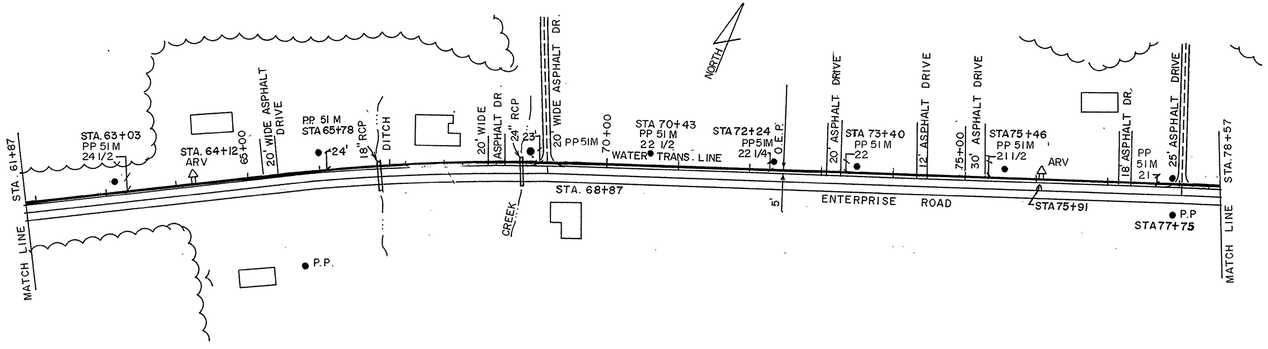
CENTRAL SECTION 1
PAGE 2

FITTING	SIZE	TYPE MATERIAL	LOCATION STATION #	MANUFACTURER	REMARKS
SADDLE	24" X 2"	STAINLESS STEEL	50 + 14	ROMAC	
GATE VALVE	2"	BRASS	50 + 14	HAMMOND	
CORP STOP	2"	BRASS	50 + 14	MCD	
RCP	24"	CONCRETE TILE	50 + 14	MAD	
RING & COVER	24"	CAST IRON	50 + 14		
ARV	2"	CAST IRON	64 + 12	CRISPUM	
SADDLE	24" X 2"	STAINLESS STEEL	64 + 12	ROMAC	
GATE VALVE	2"	BRASS	64 + 12	HAMMOND	
CORP STOP	2"	BRASS	64 + 12	MCD	
RCP	24"	CONCRETE TILE	64 + 12	MAD	
RING & COVER	24"	CAST IRON	64 + 12		
ARV	2"	CAST IRON	75 + 91	CRISPUM	
SADDLE	24" X 2"	STAINLESS STEEL	75 + 91	ROMAC	
GATE VALVE	2"	BRASS	75 + 91	HAMMOND	
CORP STOP	2"	BRASS	75 + 91	MCD	
RCP	24"	CONCRETE TILE	75 + 91	MAD	
RING & COVER	24"	CAST IRON	75 + 91		
BFV	24"	MJ	79 + 60	AMERICAN DARLING	
ARV	2"	CAST IRON	92 + 88	CRISPUM	
SADDLE	24" X 2"	STAINLESS STEEL	92 + 88	ROMAC	
GATE VALVE	2"	BRASS	92 + 88	HAMMOND	
CORP STOP	2"	BRASS	92 + 88	MCD	
RCP	24"	CONCRETE TILE	92 + 88	MAD	
RING & COVER	24"	CAST IRON	92 + 88		
ARV	2"	CAST IRON	99 + 38	CRISPUM	
SADDLE	24" X 2"	STAINLESS STEEL	99 + 38	ROMAC	

CENTRAL SECTION 1
PAGE 3

FITTING	SIZE	TYPE MATERIAL	LOCATION STATION #	MANUFACTURER	REMARKS
GATE VALVE	2"	BRASS	99 + 38	HAMMOND	
CORP STOP	2"	BRASS	99 + 38	MCD	
RCP	24"	CONCRETE TILE	99 + 38	MAC	
RING & COVER	24"	CAST IRON	99 + 38		
BFV	24"	MJ	105 + 74	AMERICAN DARLING	
ARV	2"	CAST IRON	108 + 41	CRISPUM	
SADDLE	24" X 2"	STAINLESS STEEL	108 + 41	ROMAC	
GATE VALVE	2"	BRASS	108 + 41	HAMMOND	
CORP STOP	2"	BRASS	108 + 41	MCD	
RCP	24"	CONCRETE TILE	108 + 41	MAD	
RING & COVER	24"	CAST IRON	109 + 41		
BFV	24"	MJ	121 + 51	AMERICAN DARLING	
ARV	24"	CAST IRON	122 + 36	CRISPUM	
SADDLE	24" X 2"	STAINLESS STEEL	122 + 30	ROMAC	
GATE VALVE	2"	BRASS	122 + 30	HAMMOND	
CORP STOP	2"	BRASS	122 + 30	MCD	
RCP	24"	CONCRETE TILE	122 + 30	MAD	
RING & COVER	24"	CAST IRON	122 + 30		
ARV	2"	CAST IRON	133 + 63	CRISPUM	
SADDLE	24" X 2"	STAINLESS STEEL	133 + 63	ROMAC	
GATE VALVE	2"	BRASS	133 + 63	HAMMOND	
CORP STOP	2"	BRASS	133 + 63	MCD	
RCP	24"	CONCRETE TILE	133 + 63	MAD	
RING & COVER	24"	CAST IRON	133 + 63		
90° BEND (6) RESTRAINERS	24"	MJ	136 + 65	TYLER	
	24"	1320	136 + 65	NAPCO	





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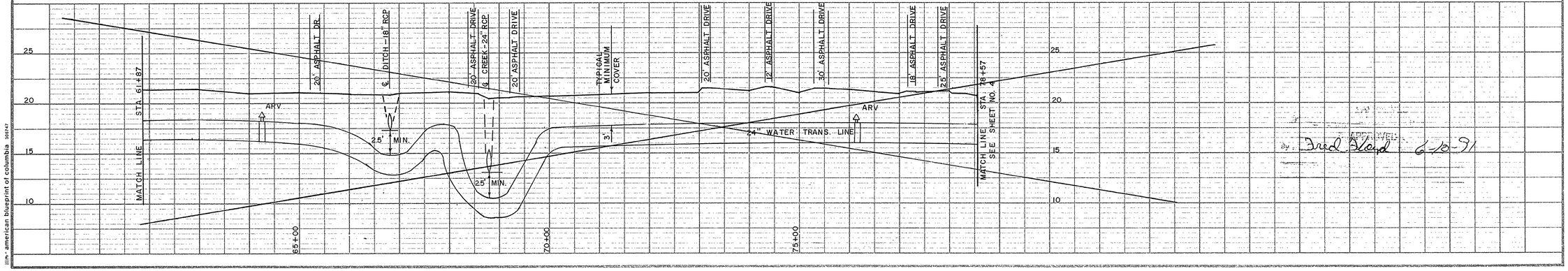


LEGEND

A.R.V.	AIR & VACUUM RELIEF VALVE
B.F.V.	BUTTERFLY VALVE
G.V.	GATE VALVE
C.M.P.	CORRUGATED METAL PIPE
R.C.P.	REINFORCED CONCRETE PIPE
	FENCE LINE
	TREE LINE
	CREEK, DITCH, WATER BODY
	POWER POLE
	PROPERTY LINE

REVISION	BY	DATE
AS BUILT	DJ	6/6/91

SURFACE WATER TREATMENT PROJECT
CENTRAL TRANSMISSION LINE SECTION 1

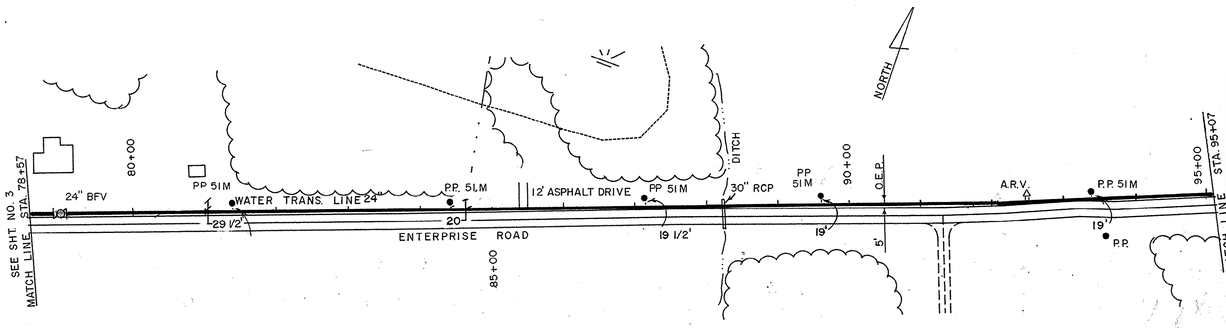
GRAND STRAND WATER & SEWER AUTHORITY

P.O. BOX 1537, CONWAY, S.C. 29526
TELEPHONE (803) 347-4641 OR 448-1686

DATE	APRIL 1989
SCALE	HOR. 1"= 100' VER. 1"= 5'
DRAWN BY	ROBERT PERKINS
CHECKED BY	JIM HEMBREE
APPROVED BY	Fred K Richardson
	FRED RICHARDSON P.E. NO. 9853
	SHEET 3 OF 7
DRAWING NO.	28-10-00[illegible]-W

By: Fred Bland 6-10-91

american blueprint of columbia 355747

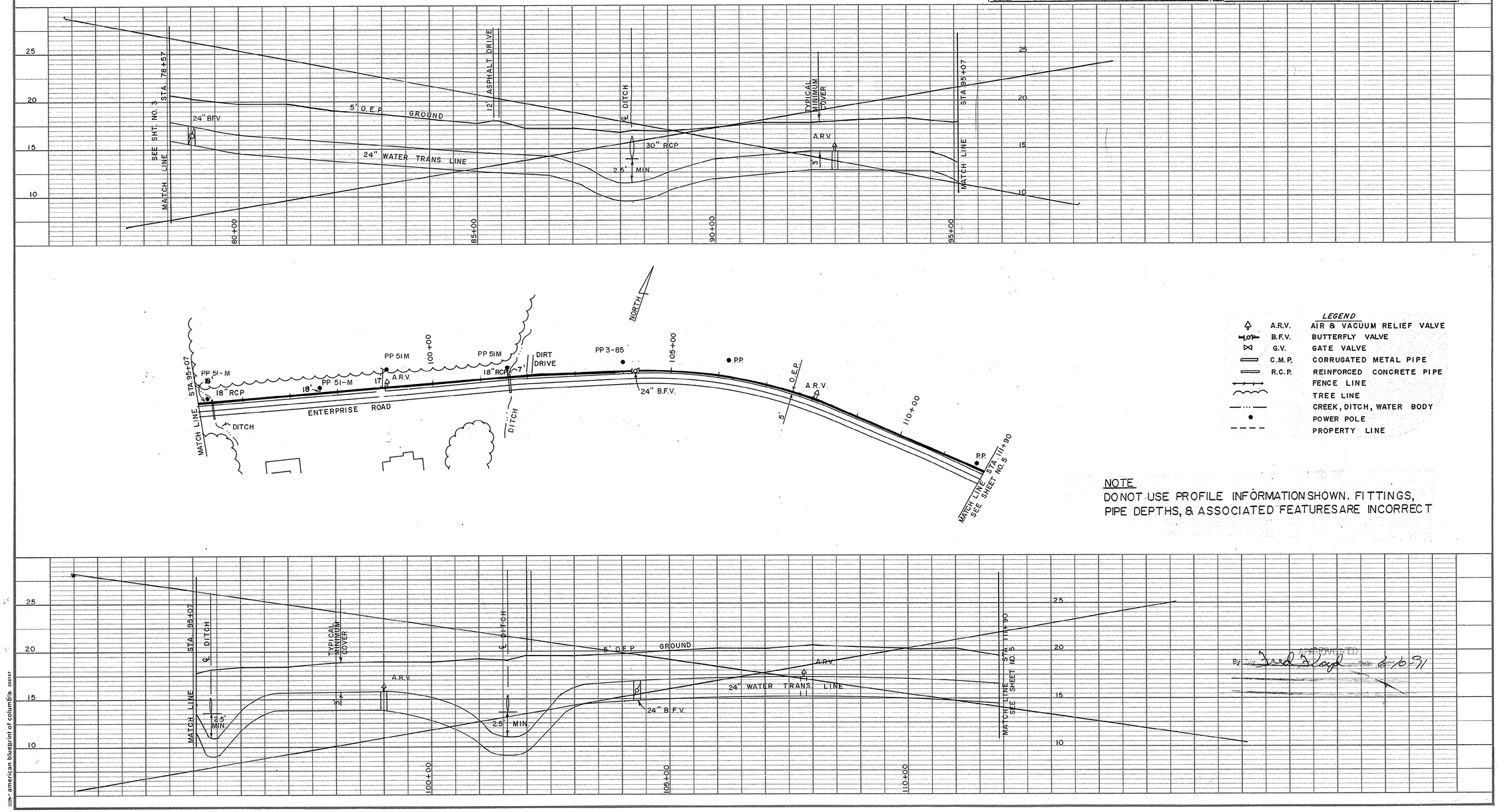


CENTRAL SECTION 1
PAGE 4

FITTING	SIZE	TYPE MATERIAL	LOCATION STATION #	MANUFACTURER	REMARKS
(6) RESTRAINERS	24"	1350	136 + 65	NAPCO	
BFV	24"	MJ	136 + 85	AMERICAN DARLING	
TEE	24" X 8"	MJ	142 + 98	TYLER	
ARV	2"	CAST IRON	142 + 98	CRISPUM	
SADDLE	24" X 2"	STAINLESS STEEL	142 + 98	ROMAC	
GATE VALVE	2"	BRASS	142 + 98	HAMMOND	
CORP STOP	2""	BRASS	142 + 98	MCD	
RCP	24"	CONCRETE TILE	142 + 98	MAD	
RING & COVER	24"	CAST IRON	142 + 98		
22½° BEND	24"	MJ	146 + 08	TYLER	
(2) RESTRAINERS	24"	1320	146 + 08	NAPCO	
(2) RESTRAINERS	24"	1350	146 + 08	NAPCO	
COUPLING	24"	MJ	148 + 55	ROCKWELL	
BFV	24"	MJ	151 + 65	AMERICAN DARLING	
DROP SECTION	24"	STEEL	151 + 75	LABARGE	
22° BEND	24"	MJ	152 + 87	TYLER	
(2) RESTRAINERS	24"	MEGALUG	152 + 87	EBAA IRON	
(2) RESTRAINERS	24"	824	152 + 87	EBAA IRON	
11½° BEND	24"	MJ	154 + 84	TYLER	
(2) RESTRAINERS	24""	MEGALUGS	154 + 84	EBAA IRON	
(2) RESTRAINERS	24"	824	154 + 84	EBAA IRON	
90° BEND	24"	MJ	156 + 80	TYLER	
(2) RESTRAINERS	24"	MEGALUGS	156 + 80	EBAA IRON	
(2) RESTRAINERS	24"	824	156 + 80	EBAA IRON	
ARV	2"	CAST IRON	159 + 68	CRISPUM	
SADDLE	24" X 2"	STAINLESS STEEL	159 + 68	ROMAC	

CENTRAL SECTION 1
PAGE 5

FITTING	SIZE	TYPE MATERIAL	LOCATION STATION #	MANUFACTURER	REMARKS
GATE VALVE	2"	BRASS	159 + 68	HAMMOND	
CORP STOP	2"	BRASS	159 + 68	MCD	
RCP	24"	CONCRETE TILE	159 + 68	MAD	
RING & COVER	24"	CAST IRON	159 + 68		
BFV	24"	MJ	159 + 80	AMERICAN DARLING	
90° BEND	24"	MJ	159 + 88	TYLER	
(2) RESTRAINERS	24"	MEGALUG	159 + 88	EBAA IRON	
(2) RESTRAINERS	24"	824	159 + 88	EBAA IRON	
(1) RESTRAINER	24"	824	161 + 01	EBAA IRON	



LEGEND

A.R.V.	AIR & VACUUM RELIEF VALVE
B.F.V.	BUTTERFLY VALVE
G.V.	GATE VALVE
C.M.P.	CORRUGATED METAL PIPE
R.C.P.	REINFORCED CONCRETE PIPE
	FENCE LINE
	TREE LINE
	CREEK, DITCH, WATER BODY
	POWER POLE
	PROPERTY LINE

NOTE
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APPROVED
By Fred Richardson 6-10-91

REVISION	BY	DATE
AS-BUILT	REP	3/91

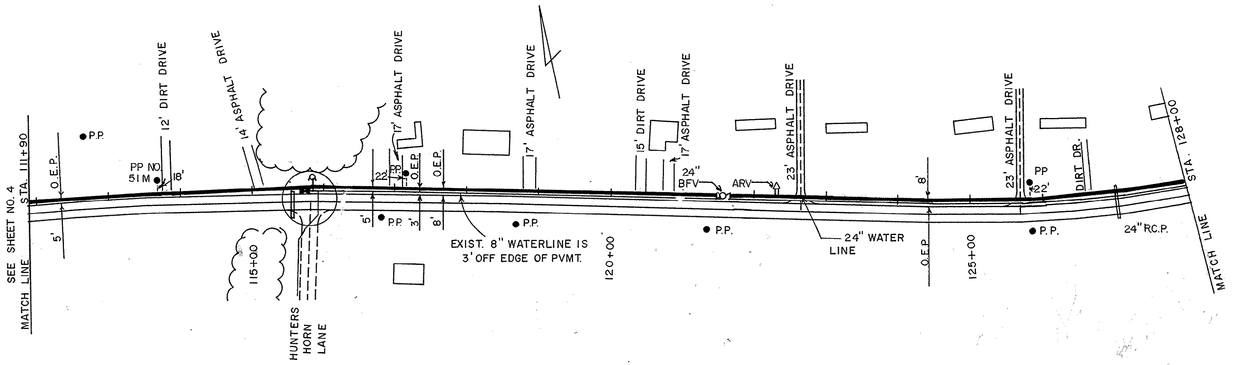
SURFACE WATER TREATMENT PROJECT
CENTRAL TRANSMISSION LINE SECTION 1

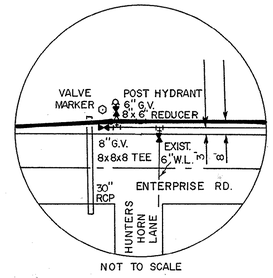
GRAND STRAND WATER & SEWER AUTHORITY

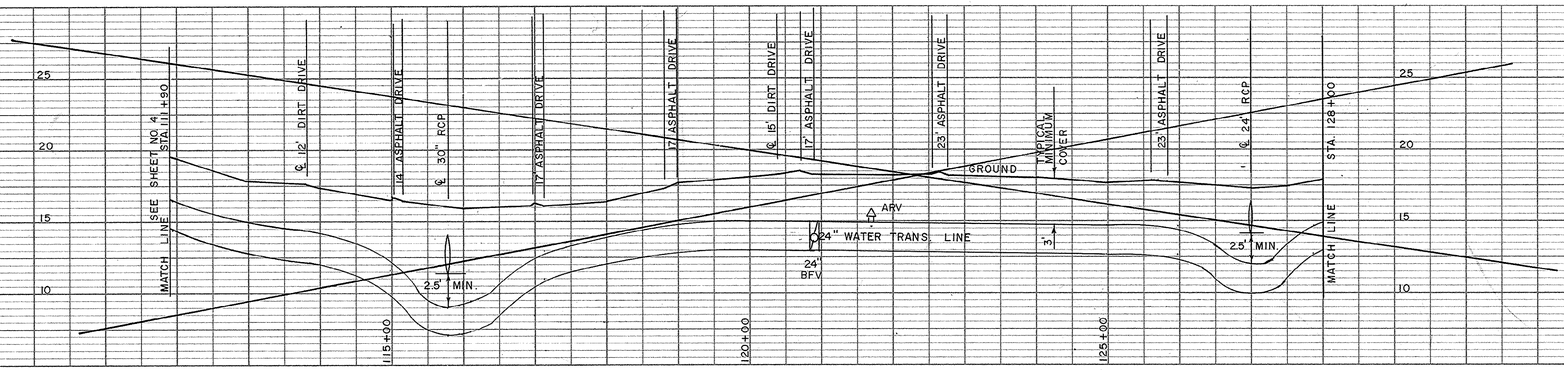
P.O. BOX 1537, CONWAY, S.C. 29526
TELEPHONE (803) 347-4641 OR 448-1686

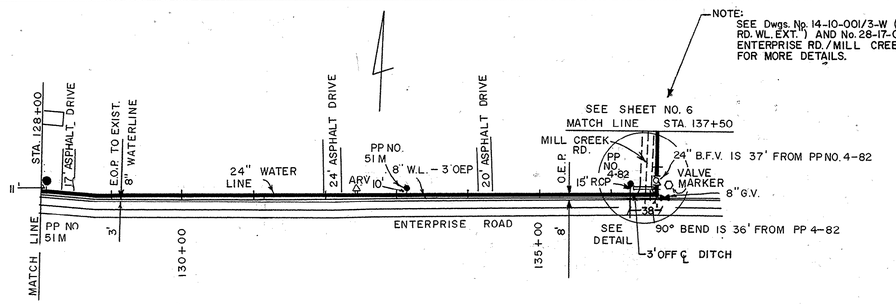
DATE	APRIL 1989
SCALE	HOR. 1"= 100' VER. 1"= 5'
DRAWN BY	ROBERT PERKINS
CHECKED BY	JIM HEMBREE
APPROVED BY	Fred R Richardson
	FRED RICHARDSON P.E. NO. 9853
	SHEET 4 OF 7
DRAWING NO.	28-10-003-W

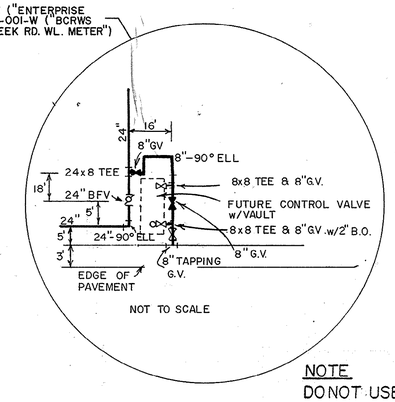
american blueprint of columbia 252147











LEGEND

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C.M.P.	CORRUGATED METAL PIPE
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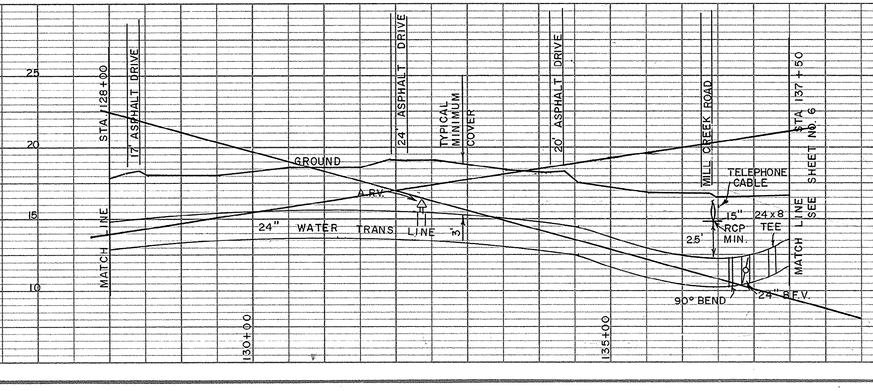

Fred Lloyd 6-16-89

REVISION	BY	DATE
AS-BUILT	REP	3/91

SURFACE WATER TREATMENT PROJECT
CENTRAL TRANSMISSION LINE
SECTION I

GRAND STRAND WATER & SEWER AUTHORITY

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TELEPHONE (803) 347-4641 OR 448-1686

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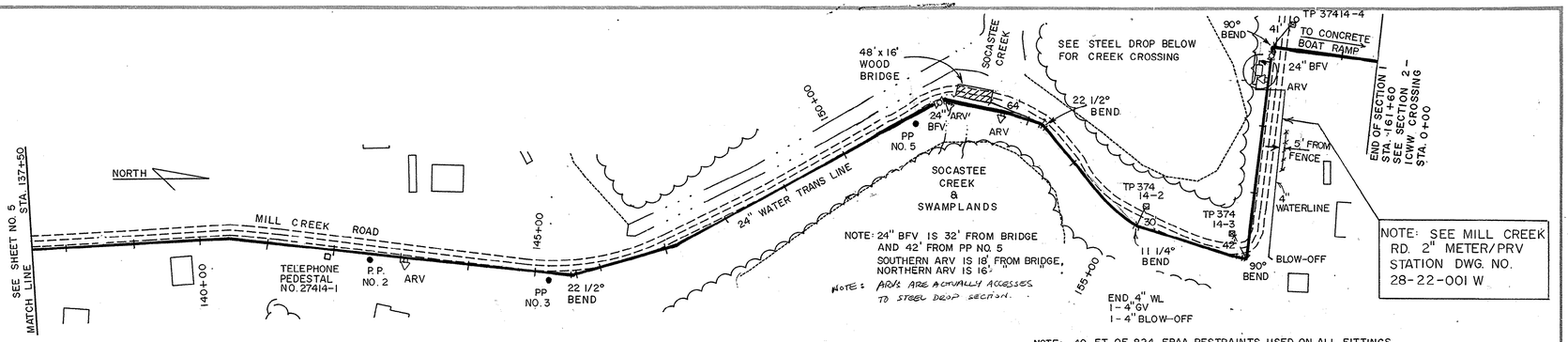
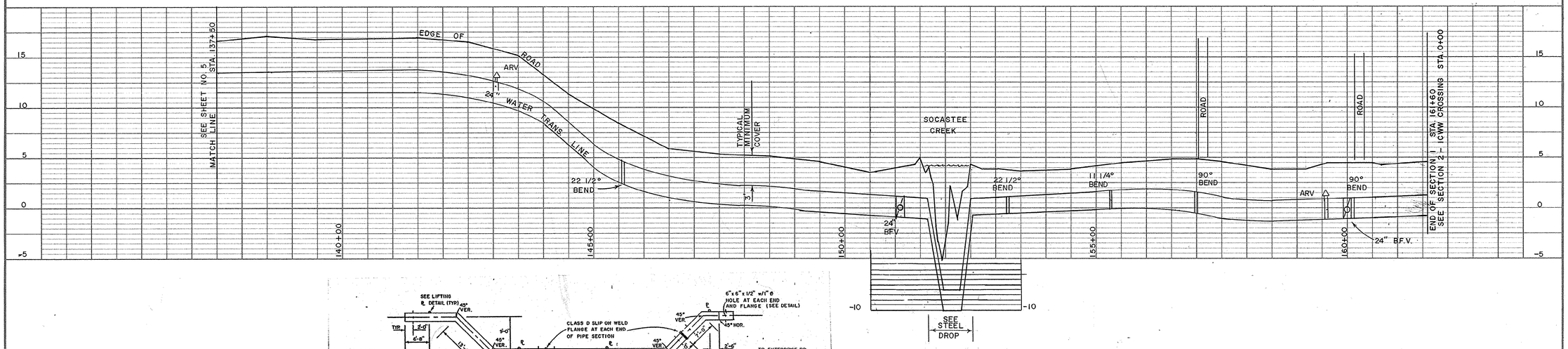
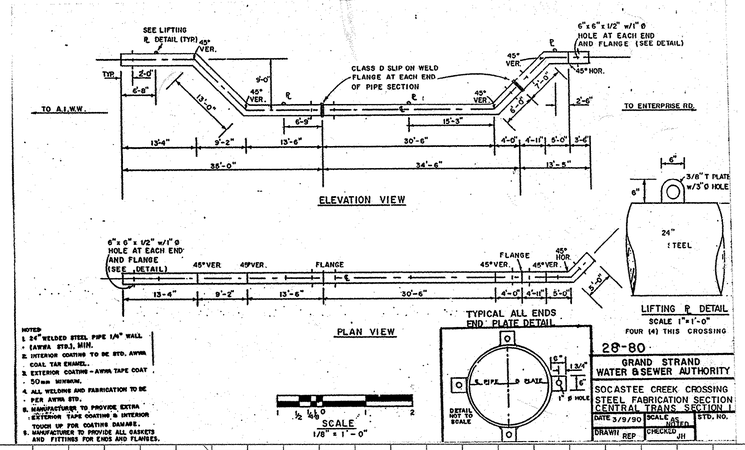
DRAWN BY	R. PERKINS
CHECKED BY	J. HEMBREE
APPROVED BY	Fred R. Richardson
	FRED RICHARDSON P.E. NO. 9853
	SHEET 5 OF 7
DRAWING NO.	28-10-004-W

american blueprint of columbia 329147



NOTE: 40 FT. OF 824 EBAA RESTRAINTS USED ON ALL FITTINGS. DUCTILE IRON PIPE USED FROM STA. 152+87 TO THE WATERWAY.





NOTES
1. 24" WELDED STEEL PIPE 1/4" WALL - AWWA #D12, MIN.
2. INTERIOR COATING TO BE STD. AWWA COAL TAR ENAMEL.
3. EXTERIOR COATING - AWWA TAPE COAT - 50 mm MINIMUM.
4. ALL WELDING AND FABRICATION TO BE PER AWWA STD.
5. MANUFACTURER TO PROVIDE EXTRA EXTERIOR TAPE COATING & INTERIOR TOUCH UP FOR COATING DAMAGE.
6. MANUFACTURER TO PROVIDE ALL GASKETS AND FITTINGS FOR ENDS AND FLANGES.

28-80

GRAND STRAND WATER & SEWER AUTHORITY

SOCASTEE CREEK CROSSING
STEEL FABRICATION SECTION
CENTRAL TRANS SECTION I

DATE 3/9/90 | SCALE AS NOTED | STD. NO.
DRAWN REP | CHECKED JH

LEGEND

A.R.V.	AIR & VACUUM RELIEF VALVE
B.F.V.	BUTTERFLY VALVE
G.V.	GATE VALVE
C.M.P.	CORRUGATED METAL PIPE
R.C.P.	REINFORCED CONCRETE PIPE
	FENCE LINE
	TREE LINE
	CREEK, DITCH, WATER BODY
	POWER POLE
	PROPERTY LINE

NOTE: SEE MILL CREEK RD. 2" METER/PRV STATION. DWG. NO. 28-22-001 W

REVISION	BY	DATE
END OF PROJECT MOVED TO STA. 150+50	RP	6/9/89
END OF PROJECT MOVED TO STA. 161+00	RP	2/28/90
AS-BUILT	REP	3/91
ADDED 6" TAP, 2" METER/PRV, 4" WATERLINE	REP	12/91

SURFACE WATER TREATMENT PROJECT

CENTRAL TRANSMISSION LINE SECTION I

GRAND STRAND WATER & SEWER AUTHORITY

P.O. BOX 1537, CONWAY, S.C. 29526

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Fred Lloyd 6-10-91

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APPROVED BY	Fred Richardson
	FRED RICHARDSON P.E. NO. 9853
	SHEET 6 OF 7
DRAWING NO.	28-10-005-W

american blueprint of columbia 394747