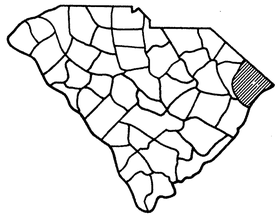
GRAND STRAND WATER & SEWER AUTHORITY

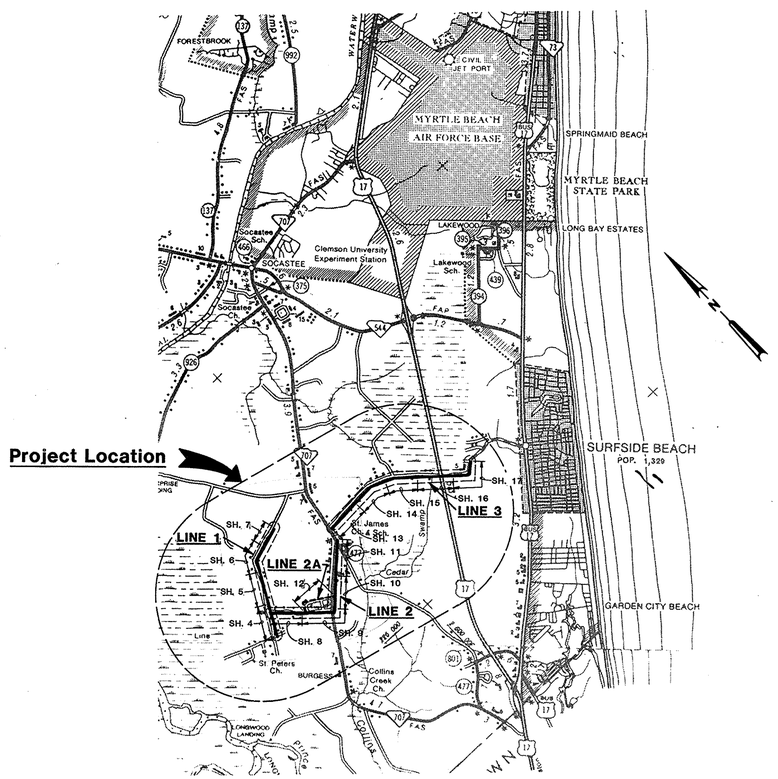
BURGESS COMMUNITY

WATER SYSTEM IMPROVEMENTS



MAP SHOWING LOCATION OF HORRY COUNTY IN SOUTH CAROLINA

VICINITY MAP



LOCATION MAP

LEGEND

EXISTING

- EDGE OF ROAD OR PAVEMENT
- EDGE OF ROAD UNDER CONSTRUCTION
- CENTER LINE
- T — UNDERGROUND TELEPHONE CABLE
- 8"W — WATERLINE - SIZE INDICATED
- 30"FM — FORCE MAIN - SIZE INDICATED
- 24"CMP — CULVERT - SIZE AND TYPE INDICATED
- CREEK
- GATE VALVE
- BUTTERFLY VALVE
- 80 — BLOWOFF
- POWER POLE
- TELEPHONE PEDESTAL
- 14"OAK — TREE - SIZE AND TYPE INDICATED

NEW

- 6 — TRAVERSE WITH STATIONING (IN 100 S OF FEET)
- WATERLINE - SIZE INDICATED
- GATE VALVE
- BUTTERFLY VALVE
- PAVEMENT REPLACEMENT
- A — TRENCH BACKFILL CLASSIFICATION
- 8"CPLG — COUPLING - SIZE INDICATED
- ENCASED PIPE
- FH — FIRE HYDRANT
- 2"CARV — AIR RELEASE VALVE
- 2"80 — BLOWOFF VALVE
- PLUG

ABBREVIATIONS

ARV	AIR RELEASE VALVE ASSEMBLY
AVE	AVENUE
BC	BRASS CAP
BFV	BUTTERFLY VALVE
BM	BENCHMARK
CLR	CLEARANCE
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CPLG	COUPLING
DI	DUCTILE IRON
DR	DRIVE
EL	ELEVATION
GTV	GATE VALVE
HORIZ	HORIZONTAL
MIN	MINIMUM
NGS	NATIONAL GEODETIC SURVEY
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
RCP	REINFORCED CONCRETE PIPE
RDCR	REDUCER
SQ	SQUARE
STA	STATION
-	TELEPHONE
TBM	TEMPORARY BENCHMARK
VERT	VERTICAL
W	WATER

INDEX OF DRAWINGS

SHEET NO.	TITLE
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3	STANDARD DETAILS
4	LINE 1-PLAN AND PROFILE STA 0+00 TO STA 28+00
5	LINE 1-PLAN AND PROFILE STA 28+00 TO STA 56+00
6	LINE 1-PLAN AND PROFILE STA 56+00 TO STA 82+00
7	LINE 1-PLAN AND PROFILE STA 82+00 TO STA 109+55
8	LINE 2-PLAN AND PROFILE STA 0+00 TO STA 28+00
9	LINE 2-PLAN AND PROFILE STA 28+00 TO STA 56+00
10	LINE 2-PLAN AND PROFILE STA 56+00 TO STA 84+00
11	LINE 2-PLAN AND PROFILE STA 84+00 TO STA 106+64
12	LINE 2A-PLAN AND PROFILE STA 0+00 TO STA 25+95
13	LINE 3-PLAN AND PROFILE STA 0+00 TO STA 28+00
14	LINE 3-PLAN AND PROFILE STA 28+00 TO STA 56+00
15	LINE 3-PLAN AND PROFILE STA 56+00 TO STA 84+00
16	LINE 3-PLAN AND PROFILE STA 84+00 TO STA 112+00
17	LINE 3-PLAN AND PROFILE STA 112+00 TO 130+25

SECTION (LETTER) OR DETAIL (NUMERAL) DESIGNATION — A

SHEET NUMBER (REPLACED WITH A LINE IF TAKEN AND SHOWN ON SAME SHEET) — 21-M-2

ON DRAWING WHERE SECTION OR DETAIL IS TAKEN: SHEET NUMBER WHERE SHOWN

ON DRAWING WHERE SECTION OR DETAIL IS SHOWN: SHEET NUMBER(S) WHERE TAKEN

DETAIL AND SECTION DESIGNATION

14-11-001/17-W

SOUTH CAROLINA PROFESSIONAL ENGINEER 15939 RICHARD A. HIRSEKORN

CH2M HILL

DSGN T. SMALLWOOD
DR M. HALES
CHK C. CRANDALL
APVD R. HIRSEKORN

NO.	DATE	REVISION	BY	APVD

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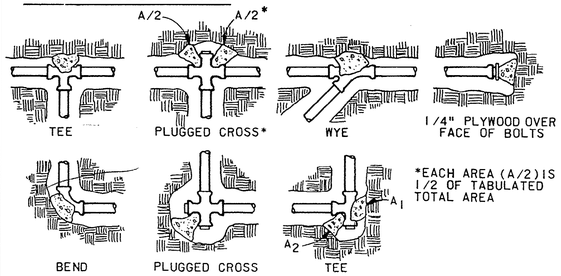
WATER SYSTEM IMPROVEMENTS
BURGESS COMMUNITY
GRAND STRAND WATER & SEWER AUTHORITY

LOCATION MAP, LEGEND, ABBREVIATIONS, AND INDEX OF DRAWINGS

SHEET 1 OF 17
DATE FEB 1985
PROJ NO. SA17940.A1

THRUST BLOCK DETAIL



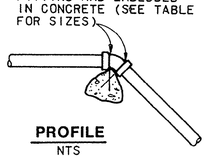
PLAN

NTS

BEARING AREA OF THRUST BLOCKS IN SQ. FT. (HORIZONTAL BENDS)							
FITTING SIZE	TEE, WYE, PLUG, OR CAP	90° BEND, PLUGGED CROSS	TEE PLUGGED ON RUN		BEND ANGLE		
			A1	A2	45°	22 1/2°	11 1/4°
4	1.0	1.4	1.0	1.4	1.0	-	-
6	2.1	3.0	2.1	3.0	1.6	1.0	-
8	3.8	5.3	3.8	5.4	2.9	1.5	1.0
10	5.9	8.4	5.9	8.4	4.6	2.4	1.2
12	8.5	12.0	8.5	12.0	6.6	3.4	1.7
14	11.5	16.3	11.5	16.3	8.9	4.6	2.3
16	15.0	21.3	15.0	21.3	11.6	6.0	3.0
18	19.0	27.0	19.0	27.0	14.6	7.6	3.8
20	23.5	33.3	23.5	33.3	18.1	9.4	4.7
24	34.0	48.0	34.0	48.0	26.2	13.6	6.8

VOLUME OF THRUST BLOCK IN CUBIC YARDS (VERTICAL BENDS)			
FITTING SIZE	BEND ANGLE		
	45°	22 1/2°	11 1/4°
4	1.1	0.4	0.2
6	2.7	1.0	0.4
8	4.0	1.5	0.6
10	6.0	2.3	0.9
12	8.5	3.2	1.3
14	11.5	4.3	1.8
16	14.8	5.6	2.3

FITTING SIZE	ROD SIZE	EMBEDMENT
12" AND LESS	# 6	30"
14"-16"	# 8	36"



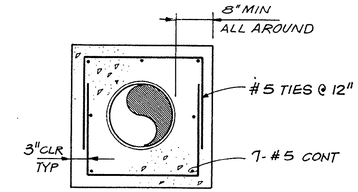
PROFILE

NTS

THRUST BLOCK NOTES AND DETAILS

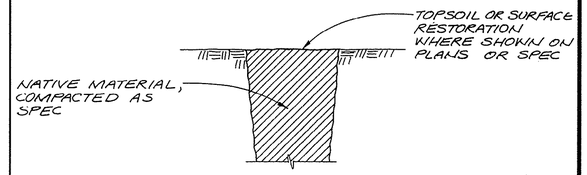
THRUST BLOCK NOTES

1. KEEP CONCRETE CLEAR OF JOINT AND JOINT ACCESSORIES.
2. CONCRETE THRUST BLOCKING SHALL BE POURED AGAINST UND'STURBED EARTH.
3. REQUIRED VOLUMES OR BEARING AREAS AT FITTINGS SHALL BE AS INDICATED BELOW, ADJUSTED, IF NECESSARY, TO CONFORM TO THE TEST PRESSURE(S) AND ALLOWABLE SOIL BEARING STRESS(ES) STATED IN THE SPECIFICATIONS.
4. THRUST BLOCK VOLUMES FOR VERTICAL BENDS HAVING UPWARD RESULTANT THRUSTS ARE BASED ON TEST PRESSURE OF 150 PSIG AND THE WEIGHT OF CONCRETE = 4050 LBS/CU YD. TO COMPUTE VOLUMES FOR DIFFERENT TEST PRESSURES, USE THE FOLLOWING EQUATION: VOLUME = (TEST PRESS./150) x (TABLE VALUE).
5. BEARING AREAS FOR HORIZONTAL BEND THRUST BLOCKS ARE BASED ON TEST PRESSURE OF 150 PSIG AND AN ALLOWABLE SOIL BEARING STRESS OF 2000 LBS/SQ FT. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES, USE THE FOLLOWING EQUATION: BEARING AREA = (TEST PRESS./150) x (2000/SOIL BEARING STRESS) x (TABLE VALUE). SEE NOTE 10.
6. THRUST BLOCKS FOR VERTICAL BENDS HAVING DOWNWARD RESULTANT THRUSTS SHALL BE THE SAME AS FOR HORIZONTAL BENDS.
7. BEARING AREAS, VOLUMES, AND SPECIAL BLOCKING DETAILS SHOWN ON PLANS TAKE PRECEDENCE OVER THIS STANDARD.
8. BEARING AREA OF THRUST BLOCK SHALL NOT BE LESS THAN 1.0 SQ.FT.
9. VERTICAL BENDS THAT REQUIRE A THRUST BLOCK VOLUME EXCEEDING 5 CUBIC YARDS REQUIRE SPECIAL BLOCKING DETAILS. SEE PLANS.
10. THE ALLOWABLE SOIL BEARING STRESS SHALL BE 1000 LBS./SQ. FT. MULTIPLY TABULATED BEARING AREAS FOR HORIZONTAL BENDS AND FOR VERTICAL BENDS BY TWO (2).

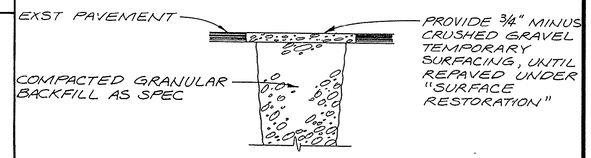


PIPE ENCASEMENT

NTS



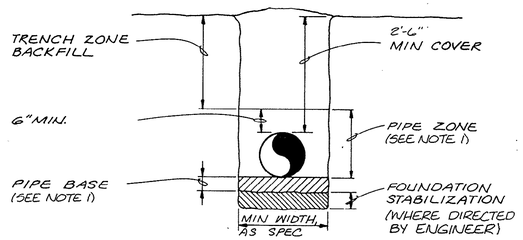
CLASS 'A'



CLASS 'D'

TRENCH BACKFILL ABOVE THE PIPE ZONE

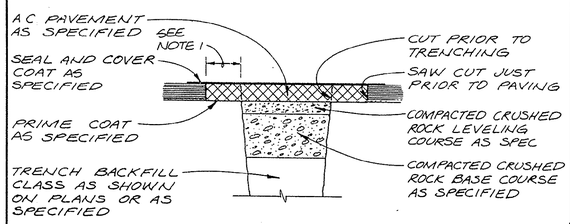
NTS



NOTES:
1. SELECT TRENCH EXCAVATED MATERIAL UNLESS OTHERWISE DIRECTED BY ENGINEER. PLACE AND COMPACT AS SPECIFIED.

TYPICAL TRENCH

NTS

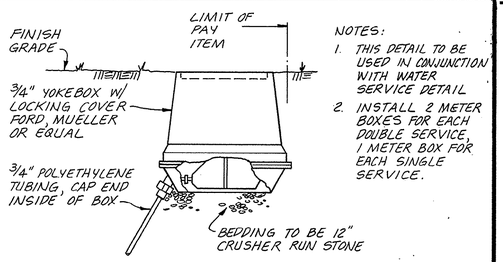


ASPHALT CONCRETE

NOTES:
1. RESTORED PAVEMENT SHALL EXTEND MINIMUM 12" ON BOTH SIDES OF TRENCH, OR GREATER THAN 12" AS REQUIRED BY SOUTH CAROLINA STATE HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

SURFACE RESTORATION

NTS



NOTES:
1. THIS DETAIL TO BE USED IN CONJUNCTION WITH WATER SERVICE DETAIL
2. INSTALL 2 METER BOXES FOR EACH DOUBLE SERVICE, 1 METER BOX FOR EACH SINGLE SERVICE.

METER BOX DETAIL

NTS

NOTES:
1. THIS DETAIL TO BE USED IN CONJUNCTION WITH METER BOX DETAIL. LONG SIDE SERVICE CONNECTION TUBING TO BE BORED UNDER EXISTING PAVEMENT.
2. LIMITS OF SERVICE CONNECTION PAY ITEM INCLUDES TAP, CORPORATION STOP, GATE VALVE AND BOX, POLYETHYLENE TUBING, AND METER BOX (SEE METER BOX DETAIL). PAY ITEM SHALL BE BASED ON INSTALLED LENGTHS OF POLYETHYLENE TUBE SHOWN IN TABLE 1.

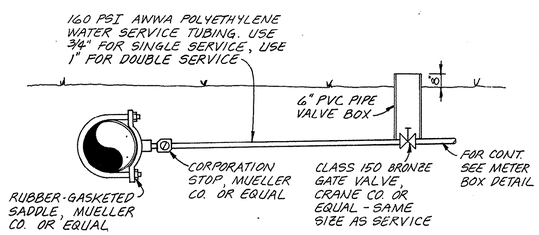
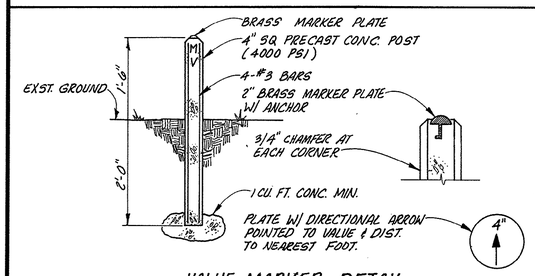


TABLE 1 POLYETHYLENE TUBING				
INSTALLED LENGTH (FT)	SHORT SIDE		LONG SIDE	
	SINGLE	DOUBLE	SINGLE	DOUBLE
3/4"	10	50	40	50
1"	—	10	—	40

WATER SERVICE DETAIL

N.T.S.



VALVE MARKER DETAIL

N.T.S.

NOTE: VALVE MARKERS TO BE PLACED AT ALL BURIED BUTTERFLY AND GATE VALVES

14-11-002/17-W

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER RICHARD A. HIRSEKORN

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WATER SYSTEM IMPROVEMENTS
BURGESS COMMUNITY
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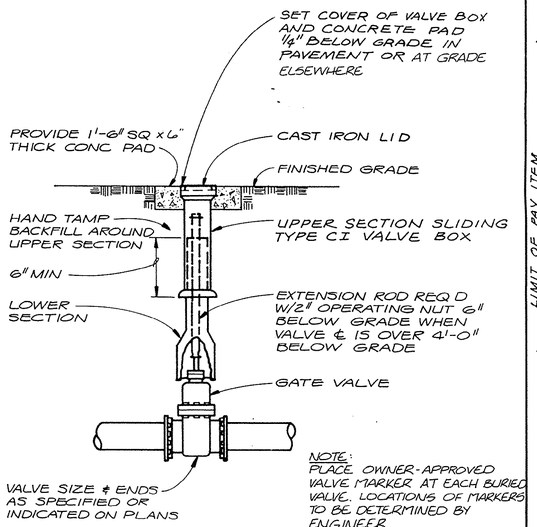
STANDARD DETAILS

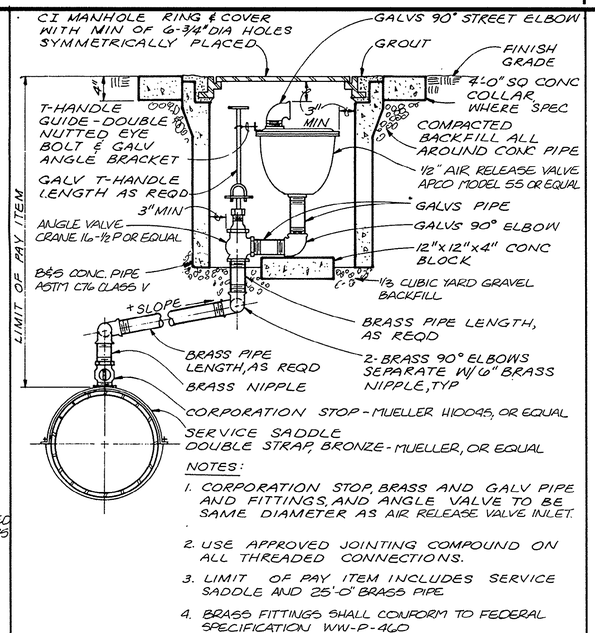
SHEET 2 OF 17
DATE FEB 1985
PROJ NO. SA17940.A1



NOTE:
PLACE OWNER-APPROVED VALVE MARKER AT EACH BURIED VALVE. LOCATIONS OF MARKERS TO BE DETERMINED BY ENGINEER.

BURIED GATE VALVE BOX SETTING

NTS

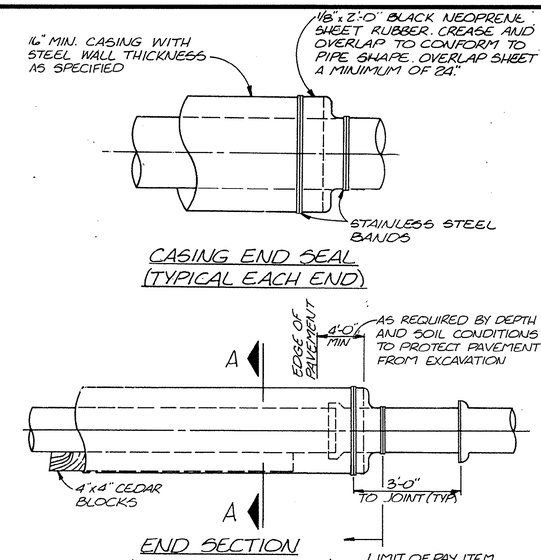


NOTES:

1. CORPORATION STOP, BRASS AND GALV PIPE AND FITTINGS, AND ANGLE VALVE TO BE SAME DIAMETER AS AIR RELEASE VALVE INLET.
2. USE APPROVED JOINTING COMPOUND ON ALL THREADED CONNECTIONS.
3. LIMIT OF PAY ITEM INCLUDES SERVICE SADDLE AND 25'-0" BRASS PIPE
4. BRASS FITTINGS SHALL CONFORM TO FEDERAL SPECIFICATION WW-P-460

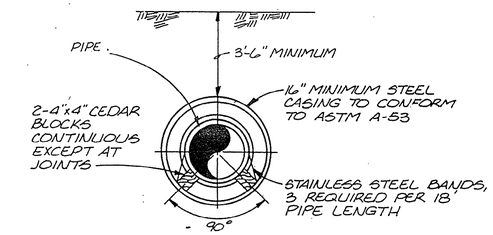
AIR RELEASE VALVE ASSEMBLY

NTS (UP TO AND INCLUDING 2")



BORED AND JACKED UNDERCROSSING DETAILS

NTS



SECTION A-A

WATERLINE LOCATION SCHEDULE

LINE 2

STA	N.EP	S.EP	NEW
1	7	29	0
2	8	27	0
3	8	27	0
4	8	28	0
5	10	29	2
6	10	30	2
7	11	31	3
8	12	32	4
9	12	32	4
10	13	33	4
11	14	34	5
12	14	34	5
13	15	35	5
14	15	35	6
15	15	35	9
16	25	46	18
17	7	29	0
18	5	15	12
19	16	6	22
20	21	3	27
21	22	1	28
22	23	2	29
23	25	4	31
24	31	10	38
25	39	15	46
26	14	7	21
27	3	19	9
28	1	22	6
29	1	22	7
30	0	22	7
31	0	21	7
32	0	21	7
33	0	21	7
34	0	21	7
35	0	21	7
36	0	21	7
37	0	21	7
38	0	21	7
39	1	22	7
40	2	23	6
41	3	23	5
42	3	23	5
43	3	23	5
44	3	23	5
45	3	23	5
46	3	23	5
47	3	23	5
48	3	23	5
49	2	22	5
50	1	22	5
51	1	22	5
52	0	21	5
53	0	21	5
54	0	21	5
55	14	37	6
56	4	27	3
57	2	20	8
58	6	17	12
59	7	17	14
60	6	18	13
61	-	21	8
62	3	20	11
63	5	19	14
64	4	19	13
65	4	19	13
66	3	20	13
67	3	20	12
68	2	20	12
69	2	21	11
70	2	21	11
71	2	21	9
72	2	21	8
73	1	22	8
74	0	22	7
75	0	22	7
76	0	22	7
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97	7	15	14
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99	11	12	17
100	12	10	19
101	14	9	20
102	15	8	22
103	16	6	23
104	17	5	25
105	20	3	27
106	32	11	40

LINE 2A

STA	N.EP	S.EP	NEW
1	2	35	1
2	3	31	2
3	0	27	5
4	1	23	7
5	20	59	10
6	0	22	6
7	0	22	8
8	0	22	8
9	0	22	8
10	0	22	8
11	0	22	8
12	0	22	8
13	1	21	9
14	2	21	9
15	4	26	4
16	9	33	2
17	16	41	9
18	0	-	8
19	3	25	10
20	3	25	10
21	3	24	10
22	1	25	9
23	2	25	8
24	2	25	7
25	1	25	7

LINE 3

STA	N.EP	S.EP	NEW
1	3	17	4
2	2	16	6
3	0	15	7
4	1	14	9
5	3	13	10
6	5	12	12
7	7	10	14
8	9	9	15
9	11	8	18
10	13	6	20
11	16	4	22
12	18	2	24
13	21	0	27
14	23	2	29
15	25	3	32
16	27	4	33
17	29	6	35
18	30	7	37
19	30	7	38
20	30	6	37
21	29	4	36
22	26	3	34
23	24	2	32
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45	7	14	13
46	5	18	12
47	4	27	3
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49	8	15	5
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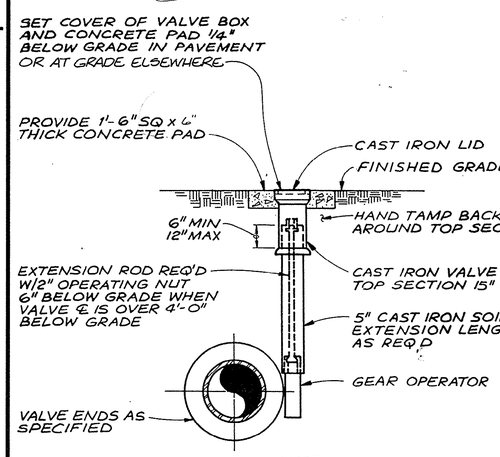
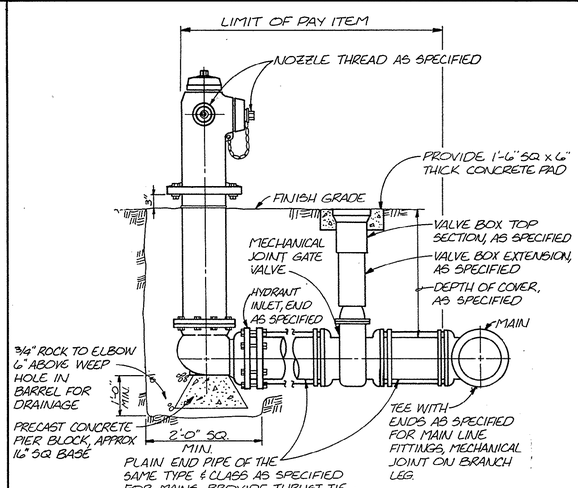
51	14	8	20
52	14	8	20
53	12	9	19
54	10	10	17
55	7	14	14
56	1	19	8
57	3	23	3
58	9	26	3
59	8	27	3
60	5	25	1
61	5	15	12
62	15	6	22
63	2	22	8
64	6	29	0
65	4	26	3
66	1	24	5
67	1	23	8
68	2	22	9
69	1	25	6
70	5	27	4
71	7	29	0
72	8	30	0
73	12	34	4
74	10	31	2
75	6	26	2
76	2	23	5
77	0	21	7
78	2	19	9
79	4	17	11
80	5	15	13
81	8	13	15
82	10	12	17
83	12	10	18
84	15	7	22
85	21	1	28
86	27	5	34
87	32	10	40
88	31	8	38
89	30	6	37
90	28	4	35
91	27	3	34
92	25	1	33
93	24	1	32
94	22	2	31
95	21	2	30
96	20	2	28
97	20	2	27
98	17	3	26
99	10	9	18
100	1	20	6
101	6	14	15
102*	36	13	43
103*	71	48	78
104*	105	81	112
105*	137	94	130
106*	-	-	150
107*	85	63	92
108*	70	48	77
109*	53	31	60
110*	38	16	45
111*	26	4	32
112*	21	0	28
113*	22	0	28
114*	14	7	20
115*	14	7	20
116*	14	7	20
117*	15	6	21
118*	16	5	22
119*	17	5	24
120*	18	4	25
121*	19	3	25
122*	19	2	26
123*	20	1	27
124*	21	0	28
125*	22	0	29
126	32	12	35
127	29	8	36
128	34	11	42
129	11	11	18
130	6	17	12



NOTE:
PLACE OWNER-APPROVED VALVE MARKER AT EACH BURIED VALVE. LOCATIONS OF MARKERS TO BE DETERMINED BY ENGINEER.

BURIED BUTTERFLY VALVE BOX SETTING

NTS



NOTES:

1. AUXILIARY VALVES AND CONNECTING PIPE SHALL BE OF THE SAME SIZE AS THE HYDRANT BOTTOM CONNECTION. (6" MIN.)
2. HYDRANTS SHALL BE FIELD LOCATED BY OWNER. LIMIT OF PAY ITEM SHALL INCLUDE FURNISHING AND INSTALLING 15'-0" OF PLAIN END PIPE.

HYDRANT DETAIL

NTS

WATERLINE LOCATION SCHEDULE

LINE 1

STA	N.EP	S.EP	NEW
1	30	7	0
2	30	9	2
3	27	7	0
4	23	3	4
5	18	2	8
6	14	6	13
7	10	10	17
8	7	13	20
9	3	17	24
10	0	20	27
11	3	23	30
12	5	27	34
13	7	26	34
14	10	24	34
15	6	23	34
16	4	24	33
17	3	25	32
18	3	25	33
19	2	26	35
20	3	28	36
21	5	37	37
22	5	33	37
23	0	25	32
24	0	25	33
25	0	25	33
26	2	26	35
27	3	28	37
28	5	31	38
29	6	33	40
30	7	35	42
31	9	37	44
32	11	40	46
33	13	42	48
34	15	43	50
35	8	37	44
36	2	30	37
37	4	25	32
38	8	21	27
39	7	20	27
40	6	20	27
41	6	21	27
42	7	20	27
43	16	10	18
44	28	1	35
45	39	11	46
46	28	0	36
47	24	3	31
48	20	6	27
49	16	10	23
50	12	14	19
51	8	17	15
52	4	21	11
53	3	25	11
54	1	27	10
55	9	26	9
56	9	34	41
57	11	37	44
58	8	35	42
59	6	32	40
60	4	29	36
61	3	28	35
62	4	29	36
63	5	31	39
64	7	33	41
65	9	40	48
66	14	16	24
67	18	10	18
68	19	8	15
69	21	7	14
70	23	5	12
71	25	3	11
72	28	1	8
73	30	1	6
74	32	3	4
75	32	1	5
76	31	0	7
77	30	1	8
78	29	2	10
79	28	3	10
80	27	4	11
81	27	4	12
82	26	5	12
83	26	5	13
84	25	6	14
85	25	7	15
86	24	8	17
87	19	2	10
88	18	3	11
89	16	5	12
90	15	6	13
91	14	7	15
92	12	8	16
93	11	10	18
94	10	11	19
95	8	13	20
96	6	14	21
97	7	13	20
98	7	14	21
99	7	13	20
100	8	13	20
101	8	12	19
102	8	11	19
103	8	12	20
104	8	12	20
105	8	13	20
106	6	14	21
107	4	16	23
108	3	18	25
109	1	1	27

NOTES:

1) DISTANCE RECORDED ON THESE CHARTS ARE PERPENDICULAR TO TRAVERSE ESTABLISHED BY INITIAL SURVEY.

2) ASTERISK (*) DENOTES MEASUREMENTS MADE TO EDGE OF ROAD CURRENTLY UNDER CONSTRUCTION. EDGE OF ROAD LOCATED BY STATE SURVEY.

STA - STATIONING ALONG TRAVERSE
N.EP - DISTANCE FROM TRAVERSE TO NORTH EDGE OF ROAD OR PAVEMENT
S.EP - DISTANCE FROM TRAVERSE TO SOUTH EDGE OF ROAD OR PAVEMENT
NEW - DISTANCE FROM TRAVERSE TO ROUTE OF NEW WATERLINE

14-11-003/17-W

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER RICHARD A. HIRSEKORN

CH2M HILL

DSGN	T. SMALLWOOD
DR	M. HALES
CHK	C. CRANDALL
APVD	R. HIRSEKORN

NO.	DATE	REVISION	BY	APVD

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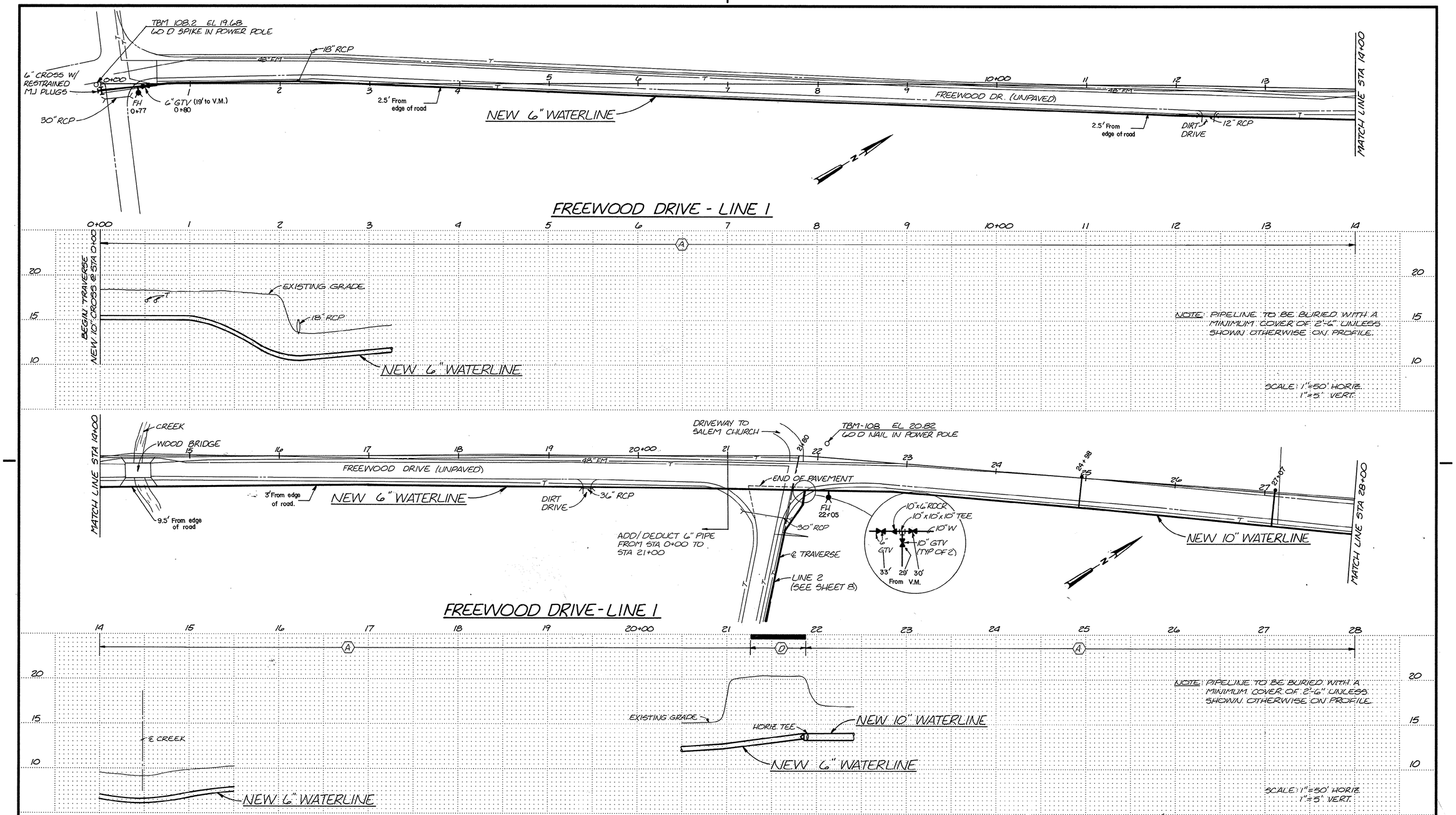
WATER SYSTEM IMPROVEMENTS
BURGESS COMMUNITY
GRAND STRAND WATER & SEWER AUTHORITY

STANDARD DETAILS

SHEET 3 OF 17
DATE FEB 1985
PROJ NO. SA17940.A1



RECORD DRAWING
FEB 10 1986 JR

Fixed Access 3' to the Rt

14-11-004/17-W

NOTE: INSTALL SERVICE CONNECTIONS PER WATER SERVICE AND METER BOX DETAILS. SERVICE CONNECTIONS AND METER BOXES TO BE FIELD-LOCATED BY OWNER.

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER RICHARD A. HIRSEKORN

CH2M HILL

DSGN	T. SMALLWOOD
DR	M. HALES
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NO.	DATE	REVISION	BY	APVD

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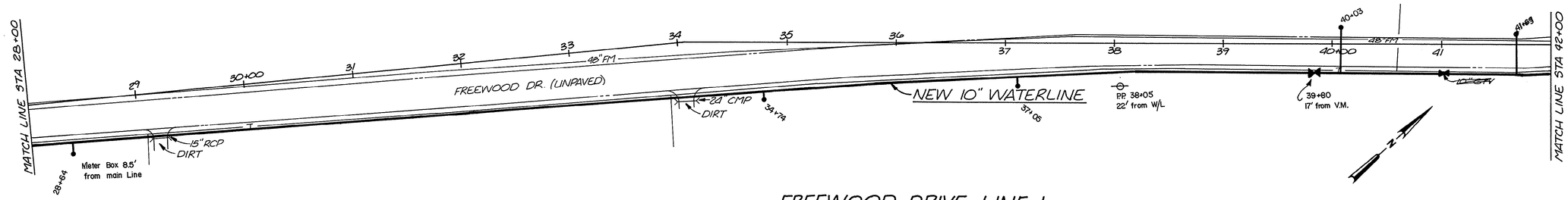
WATER SYSTEM IMPROVEMENTS
BURGESS COMMUNITY
GRAND STRAND WATER & SEWER AUTHORITY

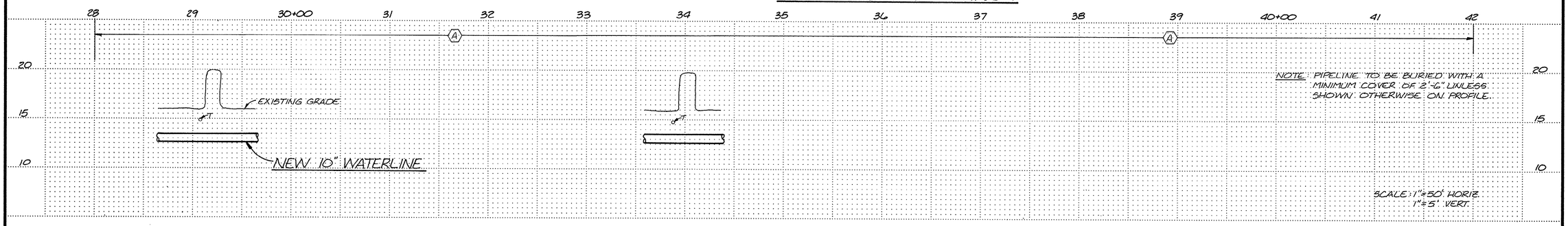
LINE 1 - PLAN AND PROFILE
10" WATERLINE
STA 0+00 TO STA 28+00

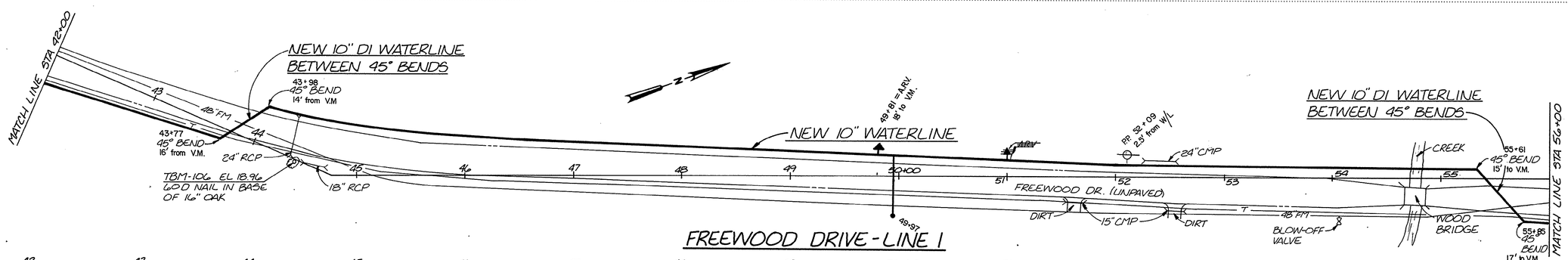
SHEET 4 OF 17
DATE FEB 1985
PROJ NO. SA17940.A1

OVERLAY IDENTIFICATION | COMPOSITE
PROJ NO. | OVERLAY
CONTRACT | SCREEN

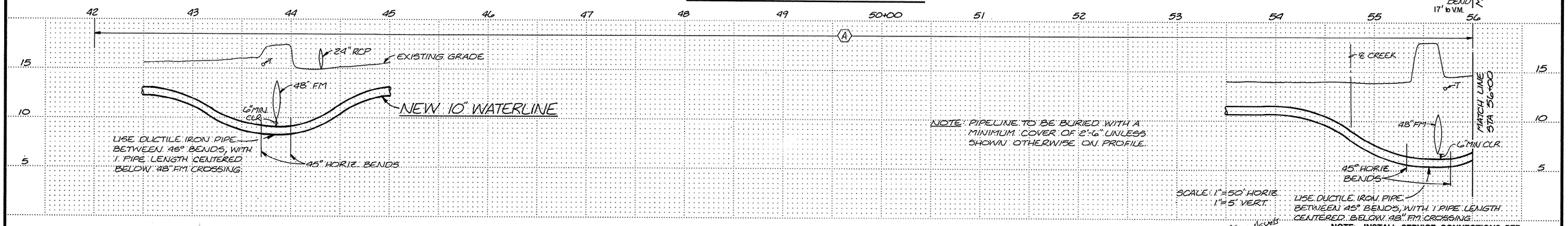


FREEWOOD DRIVE - LINE 1





FREEWOOD DRIVE - LINE 1



RECORD DRAWING
FEB 10 1986 AR

Final Records 3-28-86 RKK

14-11-005/17-W

NOTE: INSTALL SERVICE CONNECTIONS PER WATER SERVICE AND METER BOX DETAILS. SERVICE CONNECTIONS AND METER BOXES TO BE FIELD-LOCATED BY OWNER.

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER RICHARD A. HIRSEKORN

CH2M HILL	DSGN. T. SMALLWOOD DR. M. HALES CHK. C. CRANDALL APVD. R. HIRSEKORN	NO.	DATE	REVISION	BY / APVD

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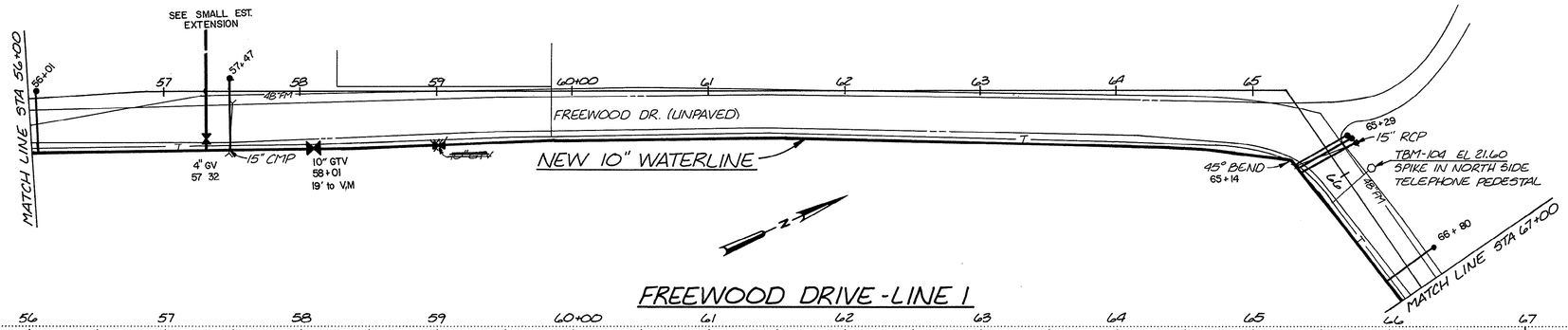
WATER SYSTEM IMPROVEMENTS
BURGESS COMMUNITY
GRAND STRAND WATER & SEWER AUTHORITY

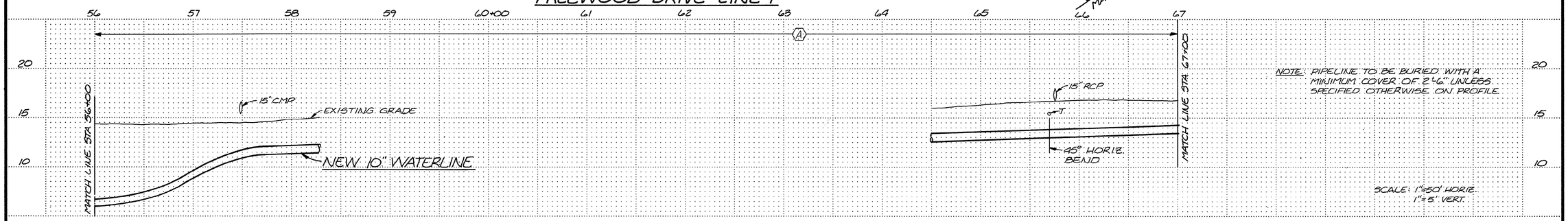
LINE 1 - PLAN AND PROFILE
10" WATERLINE
STA 28+00 TO STA 56+00

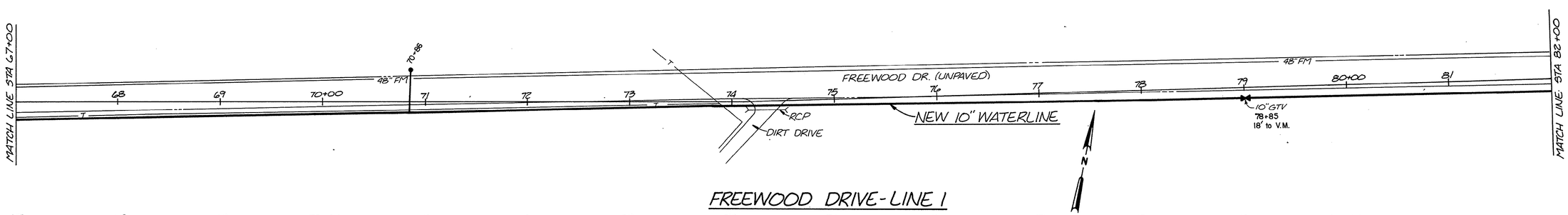
SHEET 5 OF 17
DATE FEB 1985
PROJ NO. SA17940.A1

OVERLAY IDENTIFICATION | COMPOSITE | OVERLAY | SCREEN
PROJ. NO.
CONTRACT

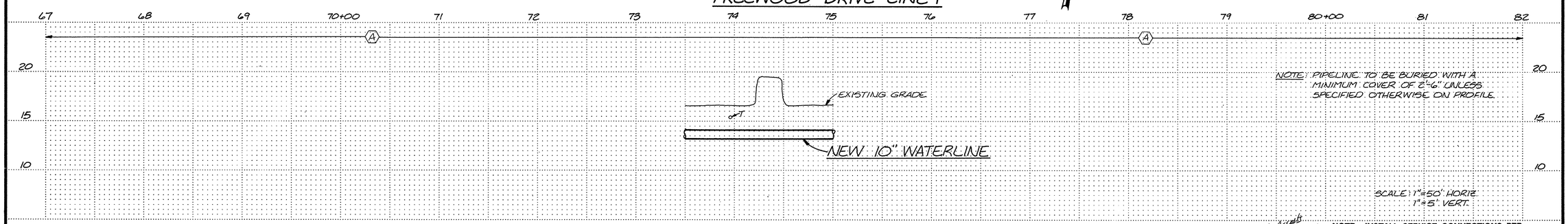


FREEWOOD DRIVE - LINE 1





FREEWOOD DRIVE - LINE 1



RECORD DRAWING
FEB 10 1986 JR

Final Asbuilt 3-20-86 RA

14-11-006/17-W

NOTE: INSTALL SERVICE CONNECTIONS PER WATER SERVICE AND METER BOX DETAILS. SERVICE CONNECTIONS AND METER BOXES TO BE FIELD-LOCATED BY OWNER.

SOUTH CAROLINA PROFESSIONAL ENGINEER REGISTERED RICHARD A. HIRSEKORN

CH2M HILL	DSGN T. SMALLWOOD					
	DR M. HALES					
	CHK C. CRANDALL					
	APVD R. HIRSEKORN	NO.	DATE	REVISION	BY	APVD

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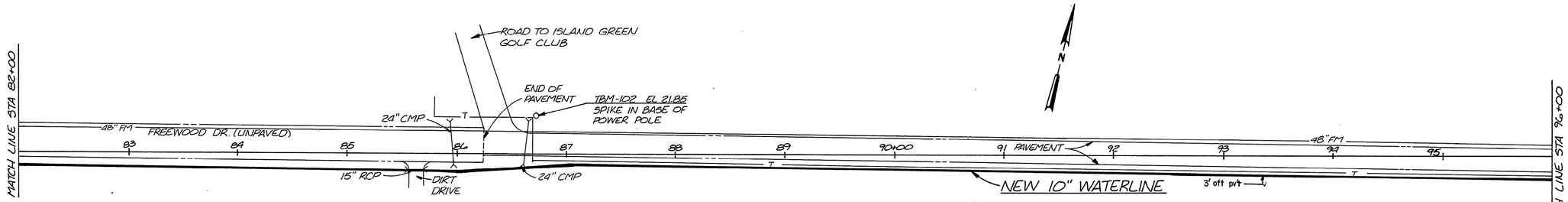
WATER SYSTEM IMPROVEMENTS
BURGESS COMMUNITY
GRAND STRAND WATER & SEWER AUTHORITY

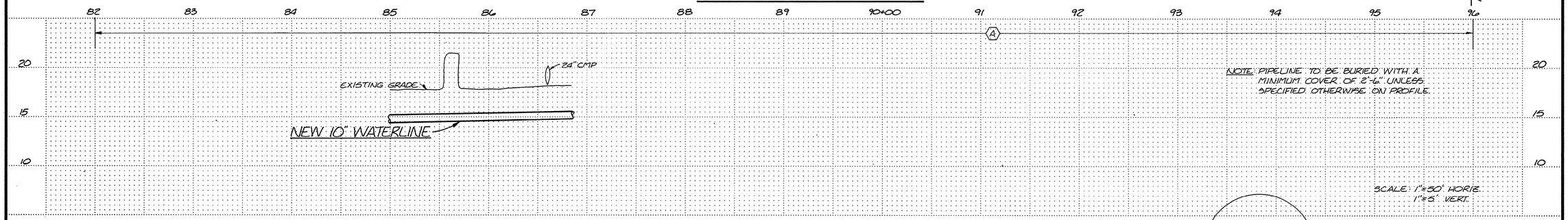
LINE 1 - PLAN AND PROFILE
10" WATERLINE
STA 56+00 TO STA 82+00

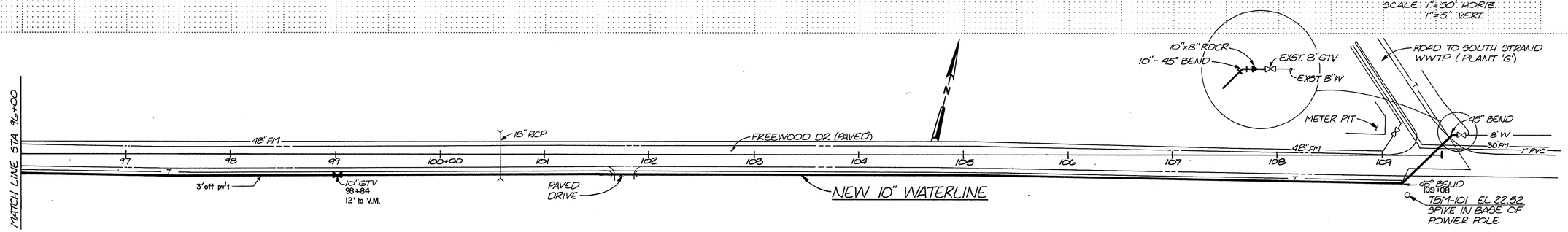
SHEET 6 OF 17
DATE FEB 1985
PROJ NO. SA17940.A1

OVERLAY IDENTIFICATION COMPOSITE
PROJ NO. OVERLAY
CONTRACT SCREEN

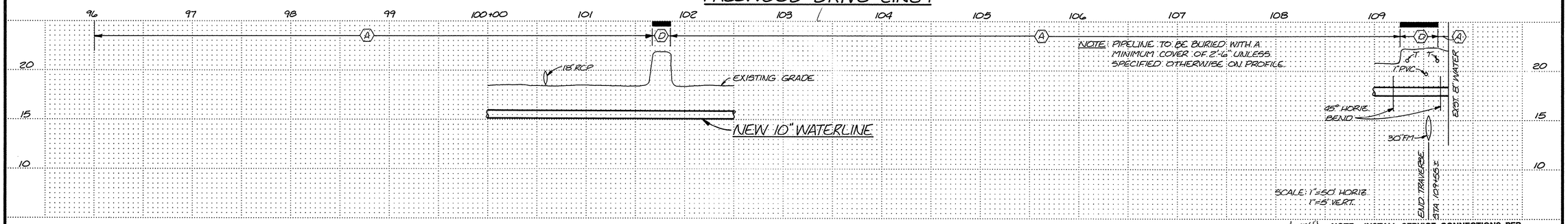


FREEWOOD DRIVE - LINE 1





FREEWOOD DRIVE-LINE 1



RECORD DRAWING
FEB 10 1986 AR

Fixed Assets 3-26-86 RA

14-11-007/17-W

NOTE: INSTALL SERVICE CONNECTIONS PER WATER SERVICE AND METER BOX DETAILS. SERVICE CONNECTIONS AND METER BOXES TO BE FIELD-LOCATED BY OWNER.

SOUTH CAROLINA PROFESSIONAL ENGINEER RICHARD A. HIRSEKORN

CH2M HILL	DSGN T. SMALLWOOD				
	DR M. HALES				
	CHK C. CRANDALL				
	APVD R. HIRSEKORN	NO.	DATE	REVISION	BY / APVD

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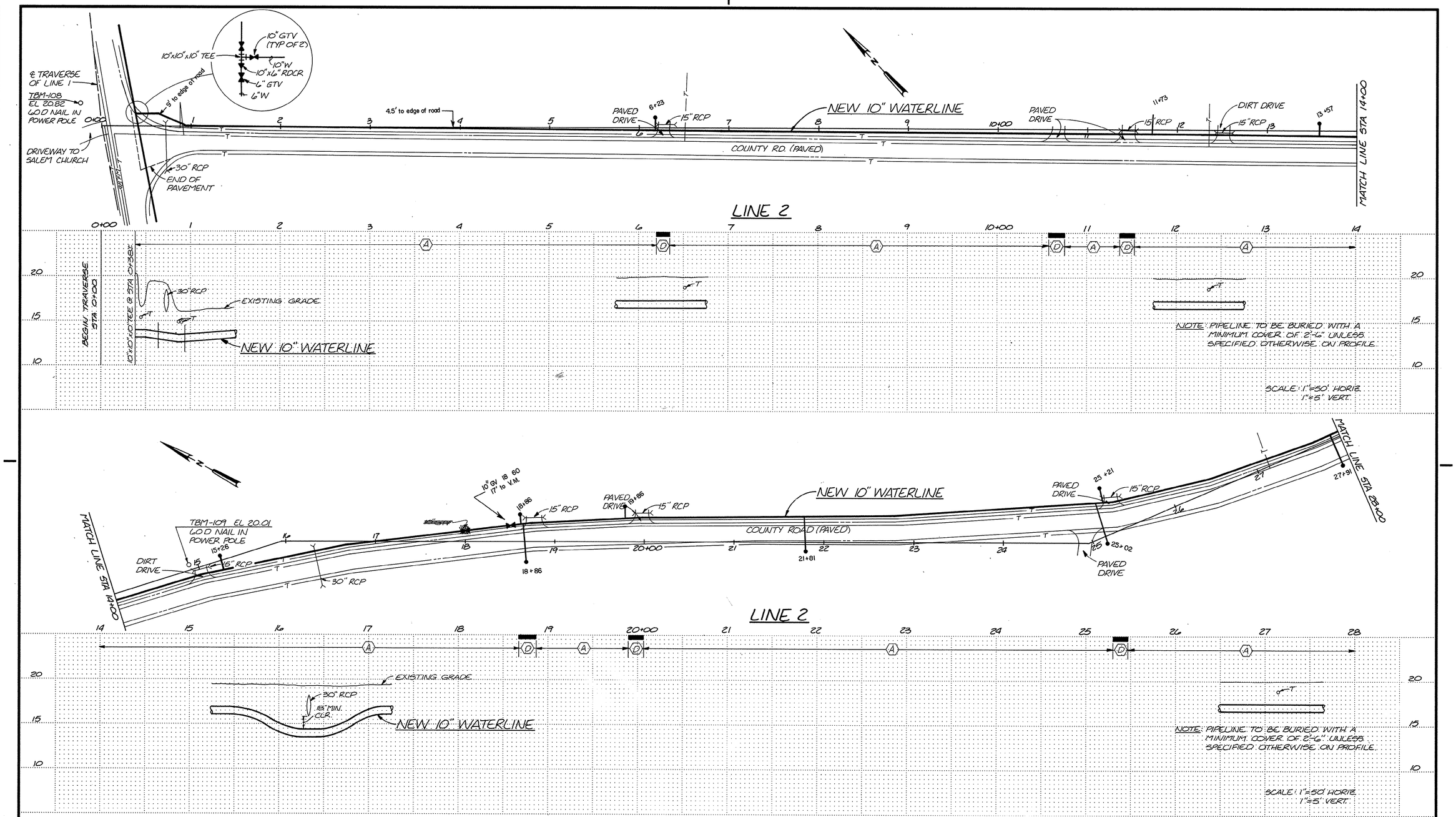
WATER SYSTEM IMPROVEMENTS
BURGESS COMMUNITY
GRAND STRAND WATER & SEWER AUTHORITY

LINE 1 - PLAN AND PROFILE
10" WATERLINE
STA 82+00 TO STA 109+55

SHEET 7 OF 17
DATE FEB 1985
PROJ NO. SA17940.A1

OVERLAY IDENTIFICATION | COMPOSITE
PROJ NO. | OVERLAY
CONTRACT | SCREEN



RECORD DRAWING
FEB 10 1986

Fixed Assets 3-26-86

14-11-008/17-W

NOTE: INSTALL SERVICE CONNECTIONS PER WATER SERVICE AND METER BOX DETAILS. SERVICE CONNECTIONS AND METER BOXES TO BE FIELD-LOCATED BY OWNER.

SOUTH CAROLINA PROFESSIONAL ENGINEER RICHARD A. HIRSEKORN

CH2M HILL

DSGN T. SMALLWOOD					
DR M. HALES					
CHK C. CRANDALL					
APVD R. HIRSEKORN	NO.	DATE	REVISION	BY	APVD

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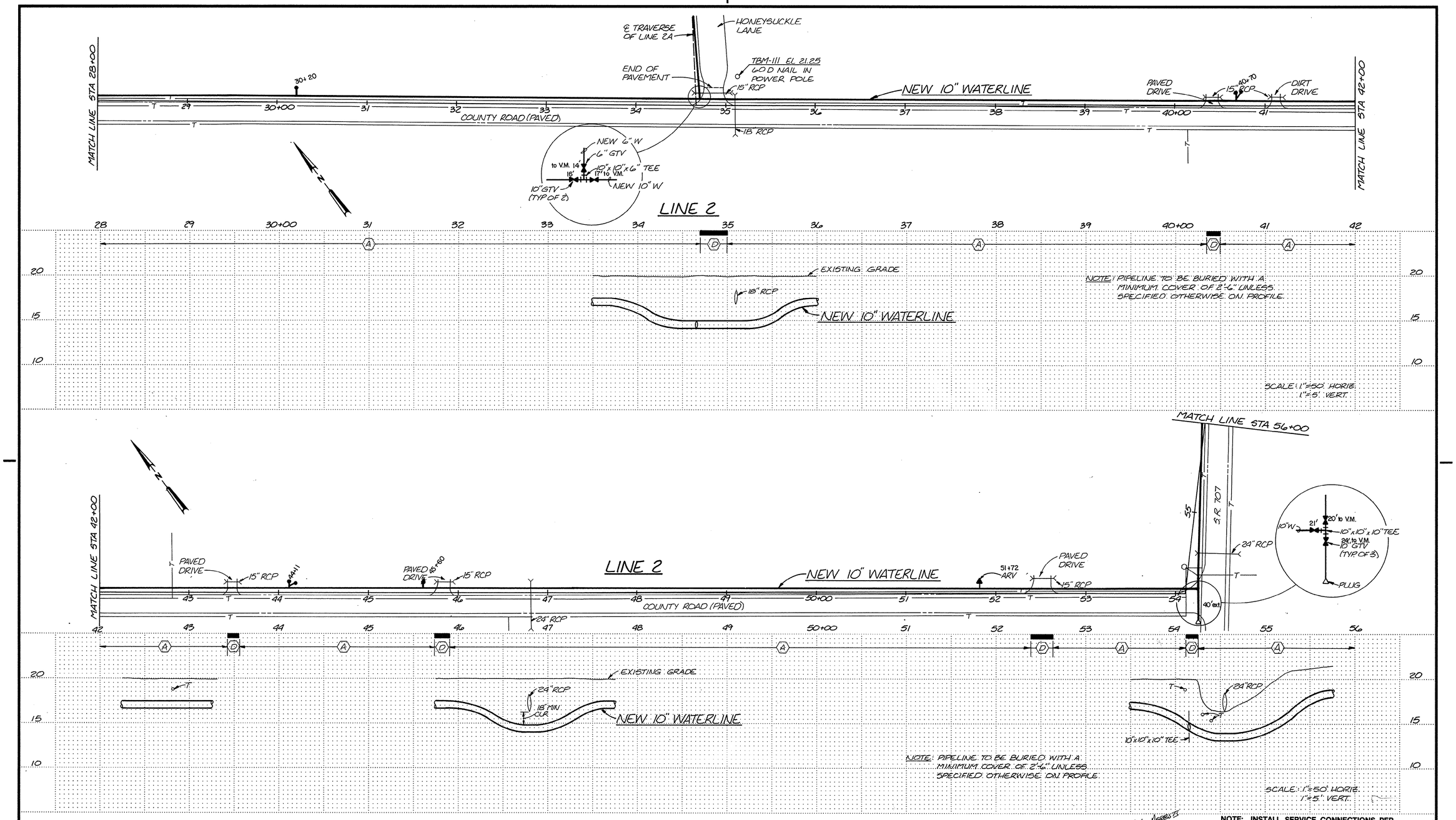
WATER SYSTEM IMPROVEMENTS
BURGESS COMMUNITY
GRAND STRAND WATER & SEWER AUTHORITY

LINE 2 - PLAN AND PROFILE
10" WATERLINE
STA 0+00 TO STA 28+00

SHEET 8 OF 17
DATE FEB 1985
PROJ NO. SA17940.A1

OVERLAY IDENTIFICATION | COMPOSITE | OVERLAY | SCREEN
PROJ. NO. | CONTRACT



RECORD DRAWING
FEB 10 1986

Fixed Access to 3-26 ... 14-10-009/17-W

NOTE: INSTALL SERVICE CONNECTIONS PER WATER SERVICE AND METER BOX DETAILS. SERVICE CONNECTIONS AND METER BOXES TO BE FIELD-LOCATED BY OWNER.

SOUTH CAROLINA PROFESSIONAL ENGINEER RICHARD A. HIRSEKORN

CH2M HILL

DSGN T. SMALLWOOD					
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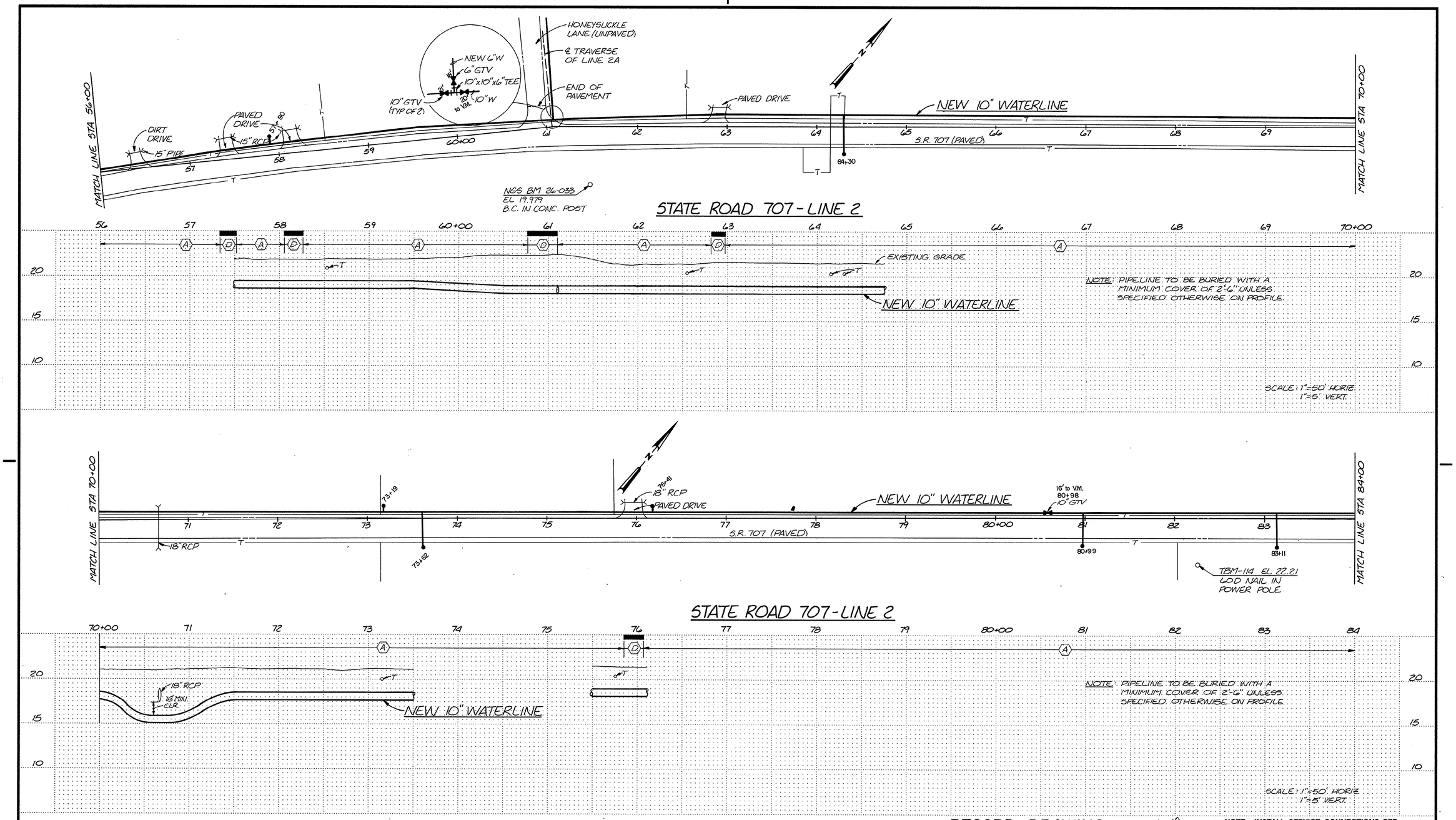
WATER SYSTEM IMPROVEMENTS
BURGESS COMMUNITY
GRAND STRAND WATER & SEWER AUTHORITY

LINE 2 - PLAN AND PROFILE
10" WATERLINE
STA 28+00 TO STA 56+00

SHEET 9 OF 17
DATE FEB 1985
PROJ NO. SA17940.A1

OVERLAY IDENTIFICATION | COMPOSITE
PROJ NO. | OVERLAY
CONTRACT | SCREEN



RECORD DRAWING
FEB 10 1986 FR

Fixed Assoc 3 ck'd RR

14-11-010/17-W

NOTE: INSTALL SERVICE CONNECTIONS PER WATER SERVICE AND METER BOX DETAILS. SERVICE CONNECTIONS AND METER BOXES TO BE FIELD-LOCATED BY OWNER.

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER RICHARD A. HIRSEKORN

Richard A. Hirsekorn

CH2M HILL

DSGN	T. SMALLWOOD
DR	M. HALES
CHK	C. CRANDALL
APVD	R. HIRSEKORN

NO.	DATE	REVISION	BY	APVD

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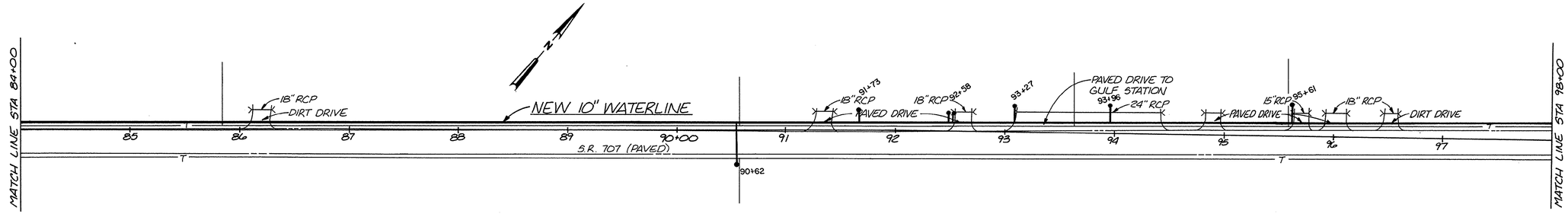
WATER SYSTEM IMPROVEMENTS
BURGESS COMMUNITY
GRAND STRAND WATER & SEWER AUTHORITY

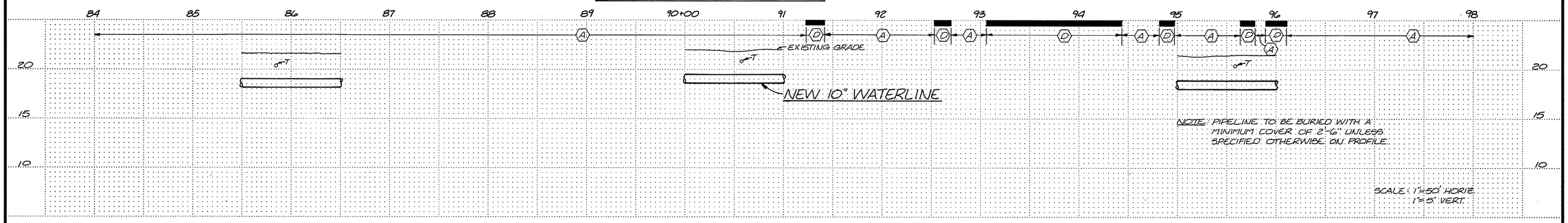
LINE 2 - PLAN AND PROFILE
10" WATERLINE
STA 56+00 TO STA 84+00

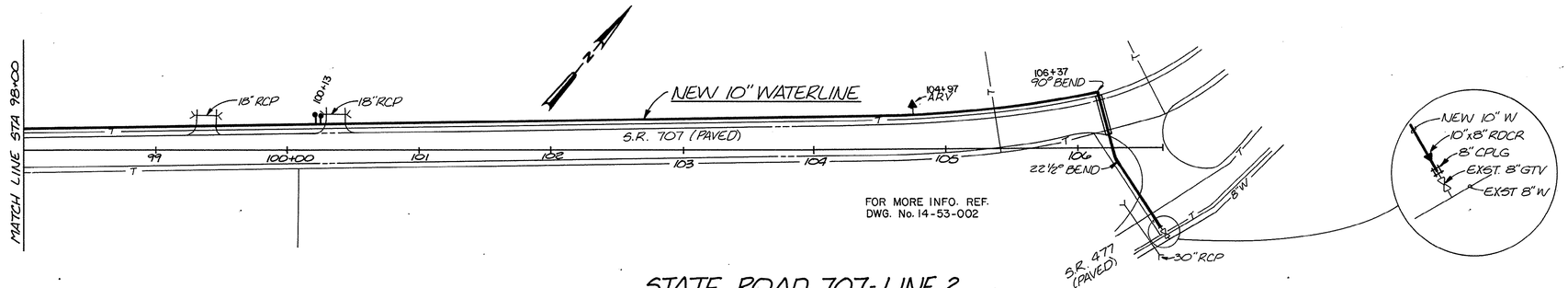
SHEET **10** OF 17
DATE **FEB 1985**
PROJ NO. **SA17940.A1**

OVERLAY IDENTIFICATION | COMPOSITE | OVERLAY | SCREEN
PROJ NO. | CONTRACT

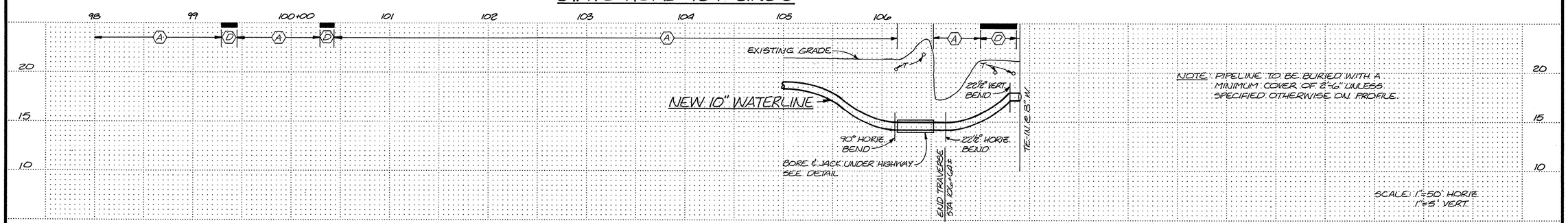


STATE ROAD 707-LINE 2





STATE ROAD 707-LINE 2



RECORD DRAWING
FEB 10 1986

Fixed Assets 3-26-86

14-11-011/17-W

NOTE: INSTALL SERVICE CONNECTIONS PER WATER SERVICE AND METER BOX DETAILS. SERVICE CONNECTIONS AND METER BOXES TO BE FIELD-LOCATED BY OWNER.

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER RICHARD A. HIRSEKORN

CH2M HILL

DSGN	T. SMALLWOOD
DR	M. HALES
CHK	C. CRANDALL
APVD	R. HIRSEKORN

NO.	DATE	REVISION	BY	APVD

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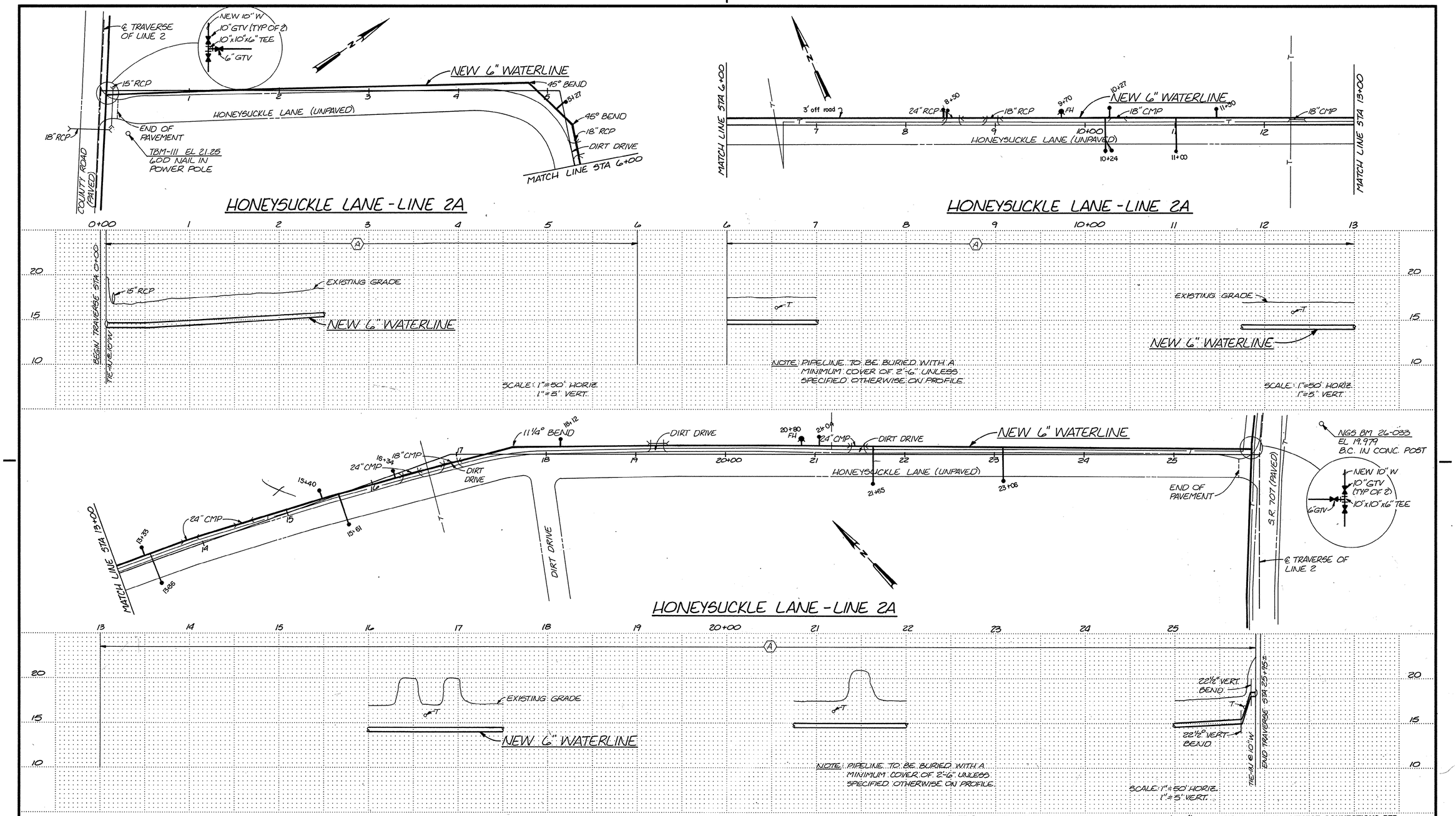
WATER SYSTEM IMPROVEMENTS
BURGESS COMMUNITY
GRAND STRAND WATER & SEWER AUTHORITY

LINE 2 - PLAN AND PROFILE
10" WATERLINE
STA 84+00 TO STA 106+64

SHEET 11 OF 17
DATE FEB 1985
PROJ NO. SA17940.A1

OVERLAY IDENTIFICATION | COMPOSITE | OVERLAY | SCREEN
PROJ NO.
CONTRACT



RECORD DRAWING
FEB 10 1986 FR

Fixed Assets 3-20-86 KB

14-11-012/17-W

NOTE: INSTALL SERVICE CONNECTIONS PER WATER SERVICE AND METER BOX DETAILS. SERVICE CONNECTIONS AND METER BOXES TO BE FIELD-LOCATED BY OWNER.

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER RICHARD A. HIRSEKORN

Richard A. Hirsekorn

CH2M HILL

DSGN	T. SMALLWOOD
DR	M. HALES
CHK	C. CRANDALL
APVD	R. HIRSEKORN

NO.	DATE	REVISION	BY	APVD

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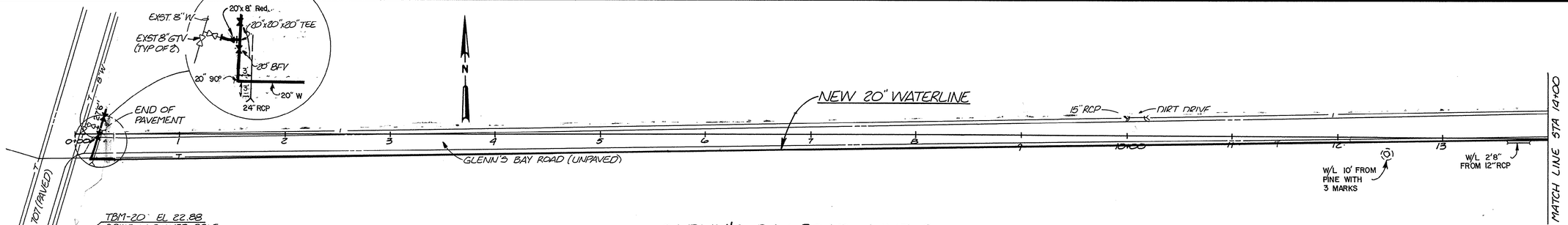
WATER SYSTEM IMPROVEMENTS
BURGESS COMMUNITY
GRAND STRAND WATER & SEWER AUTHORITY

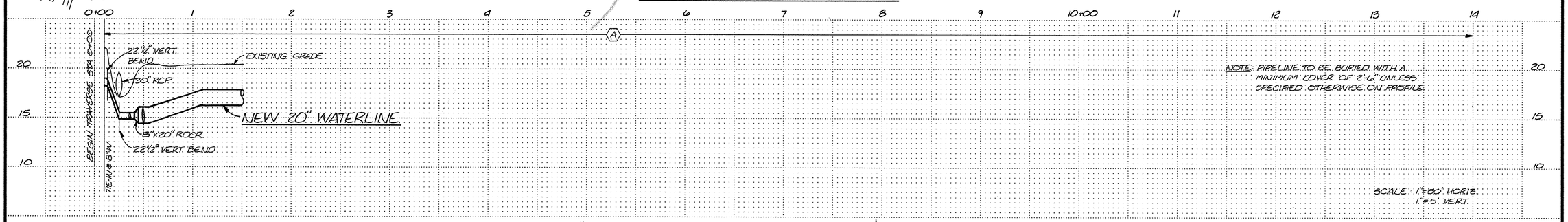
LINE 2A - PLAN AND PROFILE
6" WATERLINE
STA 0+00 TO STA 25+95

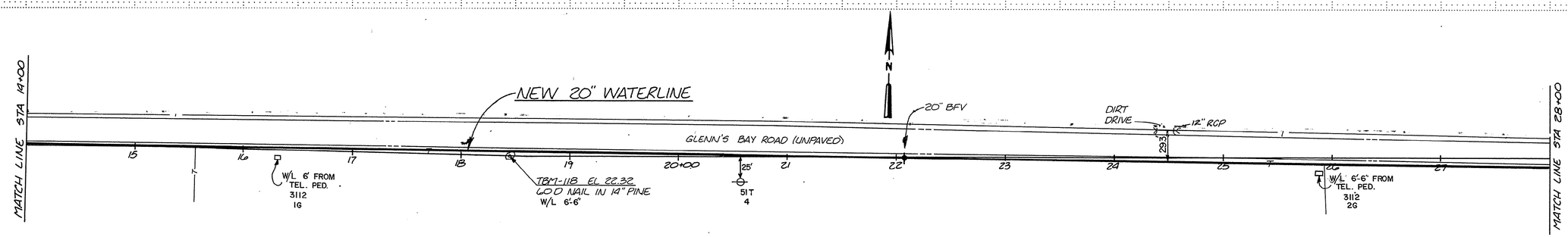
SHEET **12** OF 17
DATE **FEB 1985**
PROJ NO. **SA17940.A1**

OVERLAY IDENTIFICATION | COMPOSITE
PROJ NO. | OVERLAY
CONTRACT | SCREEN

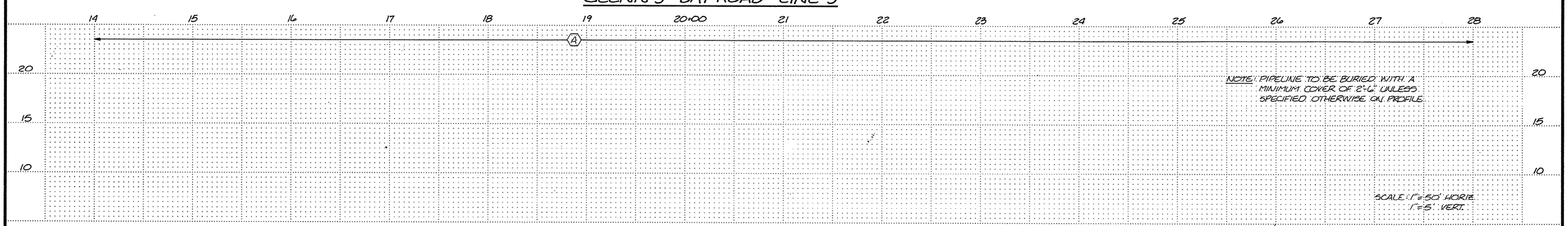


GLENN'S BAY ROAD - LINE 3





GLENN'S BAY ROAD - LINE 3



RECORD DRAWING
FEB 10 1986

Fixed Accts 2-26-86 TA

14-IL-D13/17-W

NOTE: INSTALL SERVICE CONNECTIONS PER WATER SERVICE AND METER BOX DETAILS. SERVICE CONNECTIONS AND METER BOXES TO BE FIELD-LOCATED BY OWNER.

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER RICHARD A. HIRSEKORN

CH2M HILL

DSGN T. SMALLWOOD					
DR M. HALES					
CHK C. CRANDALL					
APVD R. HIRSEKORN	NO.	DATE	REVISION	BY	APVD

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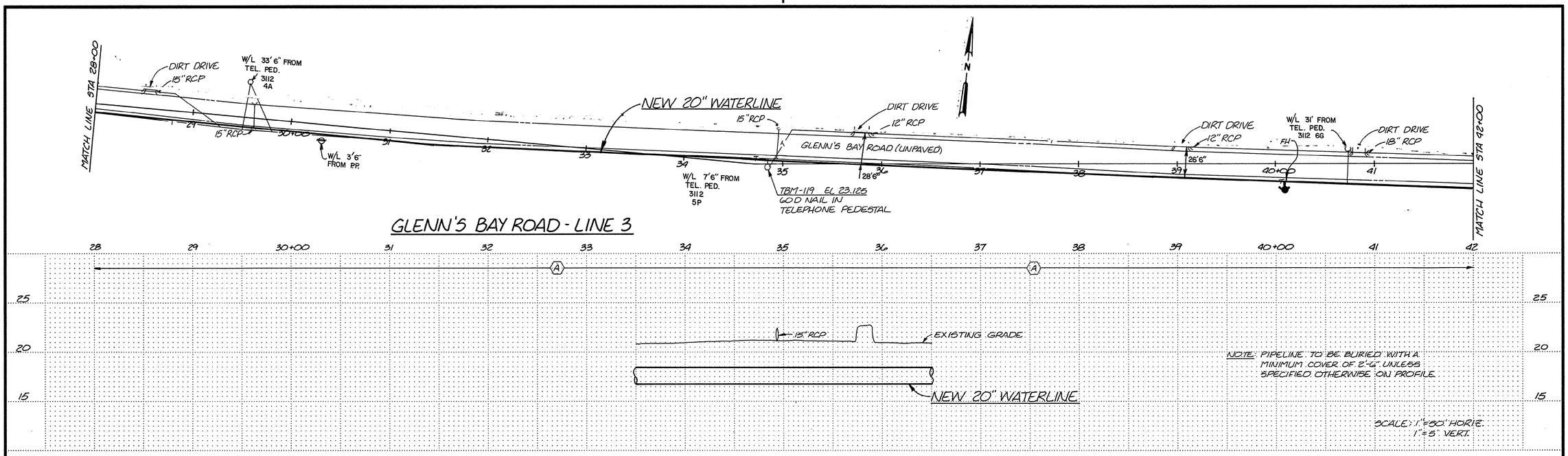
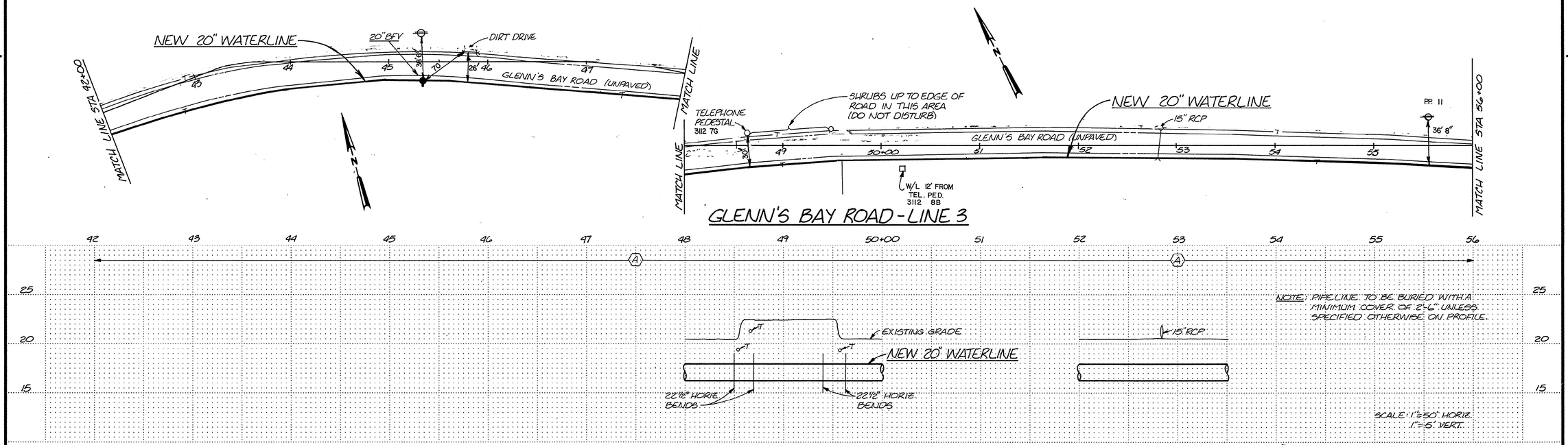
WATER SYSTEM IMPROVEMENTS
BURGESS COMMUNITY
GRAND STRAND WATER & SEWER AUTHORITY

LINE 3 - PLAN AND PROFILE
20" WATERLINE
STA 0+00 TO STA 28+00

SHEET 13 OF 17
DATE FEB 1985
PROJ NO. SA17940.A1

OVERLAY IDENTIFICATION | COMPOSITE | OVERLAY | SCREEN
PROJ NO. | CONTRACT





RECORD DRAWING
FEB 10 1986

Fixed Assoc'd 3-26-86

14-11-014/17-W

NOTE: INSTALL SERVICE CONNECTIONS PER WATER SERVICE AND METER BOX DETAILS. SERVICE CONNECTIONS AND METER BOXES TO BE FIELD-LOCATED BY OWNER.

SOUTH CAROLINA PROFESSIONAL ENGINEER RICHARD A. HIRSEKORN

CH2M HILL

DSGN	T. SMALLWOOD				
DR	M. HALES				
CHK	C. CRANDALL				
APVD	R. HIRSEKORN	NO.	DATE	REVISION	BY	APVD

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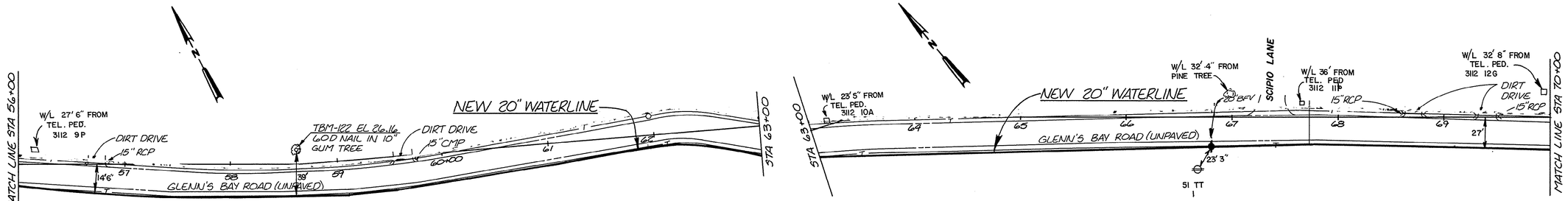
WATER SYSTEM IMPROVEMENTS
BURGESS COMMUNITY
GRAND STRAND WATER & SEWER AUTHORITY

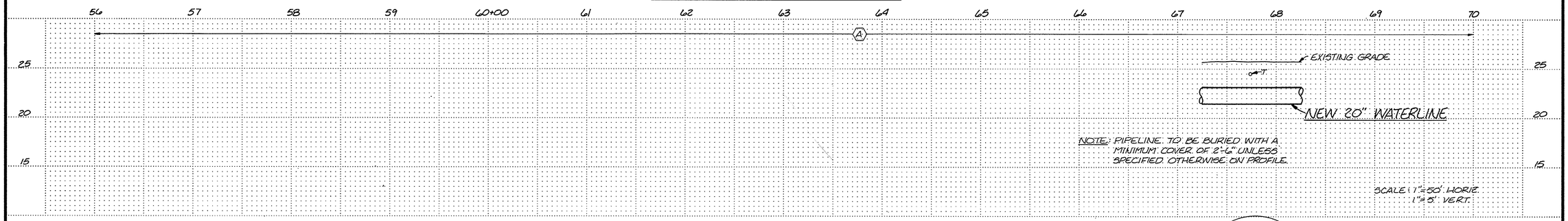
LINE 3 - PLAN AND PROFILE
20" WATERLINE
STA 28+00 TO STA 56+00

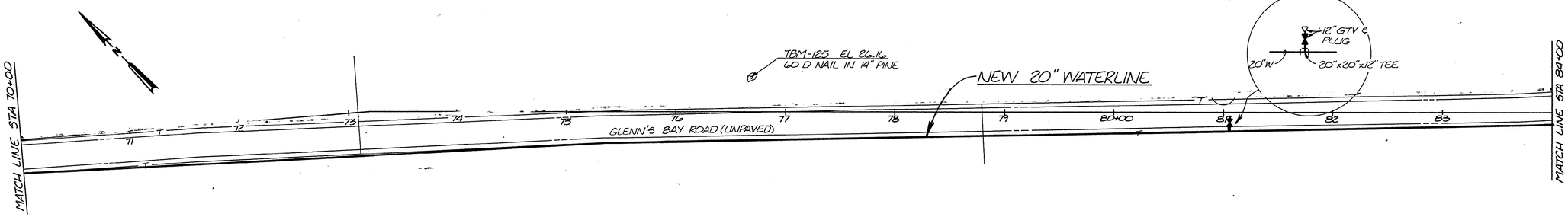
SHEET 14 OF 17
DATE FEB 1985
PROJ NO. SA17940.A1

OVERLAY IDENTIFICATION | COMPOSITE | OVERLAY | SCREEN
PROJ NO.
CONTRACT

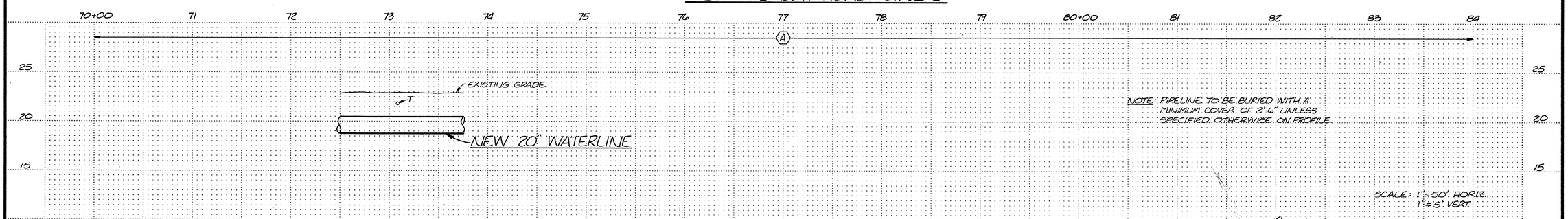


GLENN'S BAY ROAD - LINE 3





GLENN'S BAY ROAD - LINE 3



RECORD DRAWING
FEB 10 1986 JR

Field Accepted 5-20-86 TCA

14-11-015A7-W

NOTE: INSTALL SERVICE CONNECTIONS PER WATER SERVICE AND METER BOX DETAILS. SERVICE CONNECTIONS AND METER BOXES TO BE FIELD-LOCATED BY OWNER.

SOUTH CAROLINA PROFESSIONAL ENGINEER RICHARD A. HIRSEKORN

CH2M HILL

DSGN	T. SMALLWOOD
DR	M. HALES
CHK	C. CRANDALL
APVD	R. HIRSEKORN

NO.	DATE	REVISION	BY	APVD

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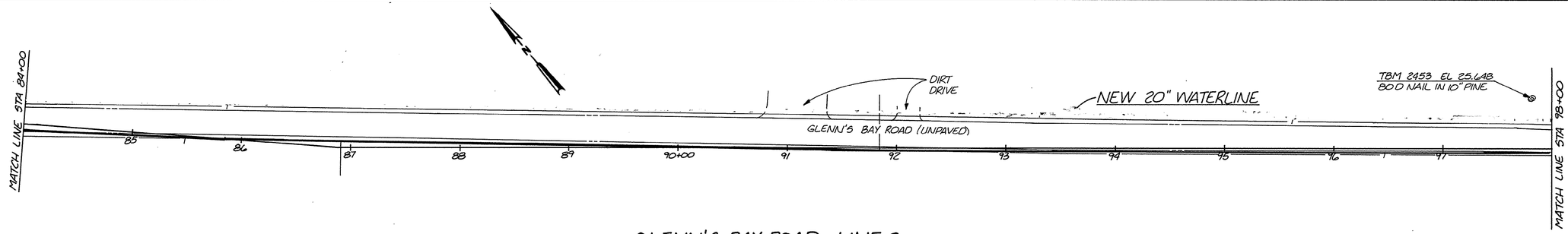
WATER SYSTEM IMPROVEMENTS
BURGESS COMMUNITY
GRAND STRAND WATER & SEWER AUTHORITY

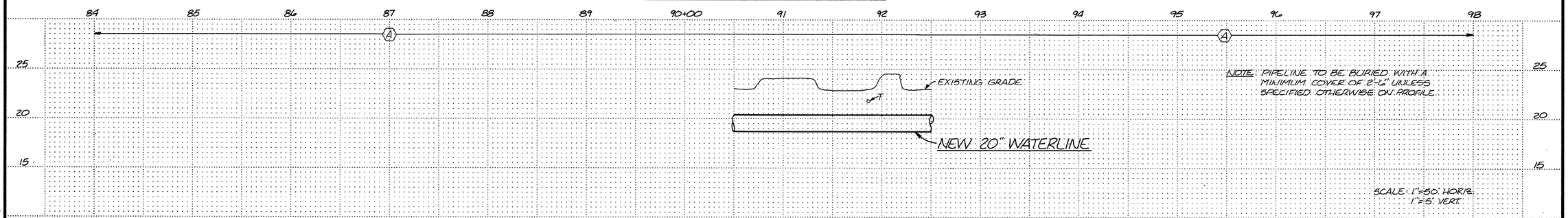
LINE 3 - PLAN AND PROFILE
20" WATERLINE
STA 56+00 TO STA 84+00

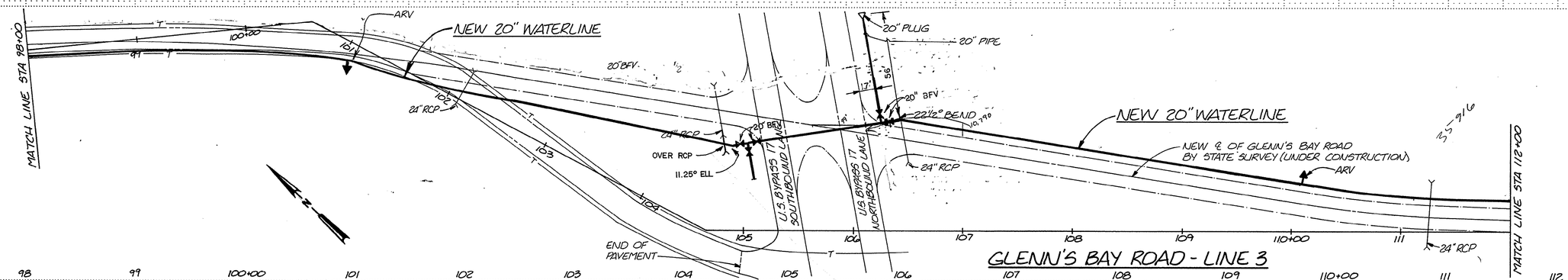
SHEET 15 OF 17
DATE FEB 1985
PROJ NO. SA17940.A1

OVERLAY INDICATION COMPOSITE
OVERLAY SCREEN
PROJ NO.
CONTRACT

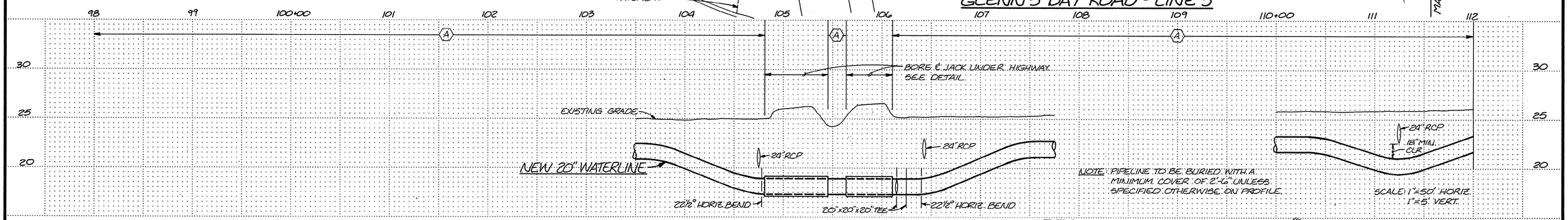


GLENN'S BAY ROAD - LINE 3





GLENN'S BAY ROAD - LINE 3



RECORD DRAWING
FEB 10 1986 RR

Final Acceptance 3-26-86 RA

14-11-016/17-W

NOTE: INSTALL SERVICE CONNECTIONS PER WATER SERVICE AND METER BOX DETAILS. SERVICE CONNECTIONS AND METER BOXES TO BE FIELD-LOCATED BY OWNER.

SOUTH CAROLINA PROFESSIONAL ENGINEER REGISTERED RICHARD A. HIRSEKORN

CH2M HILL

DSGN T. SMALLWOOD					
DR M. HALES					
CHK C. CRANDALL					
APVD R. HIRSEKORN	NO.	DATE	REVISION	BY	APVD

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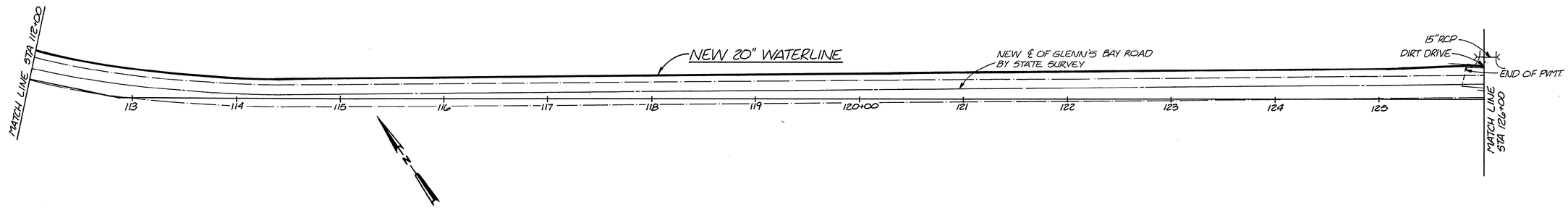
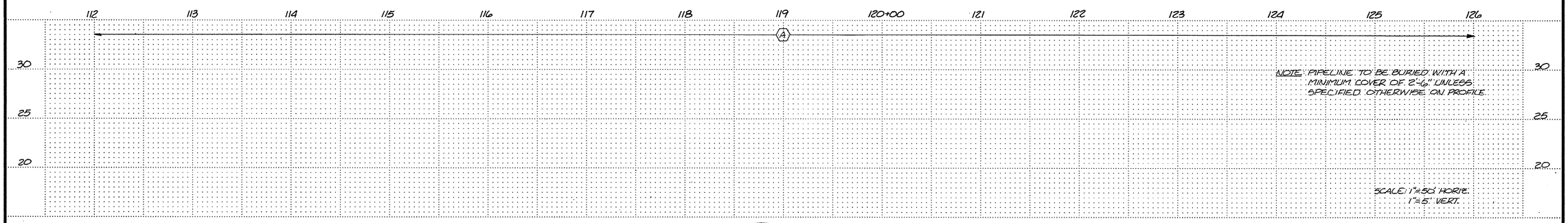
WATER SYSTEM IMPROVEMENTS
BURGESS COMMUNITY
GRAND STRAND WATER & SEWER AUTHORITY

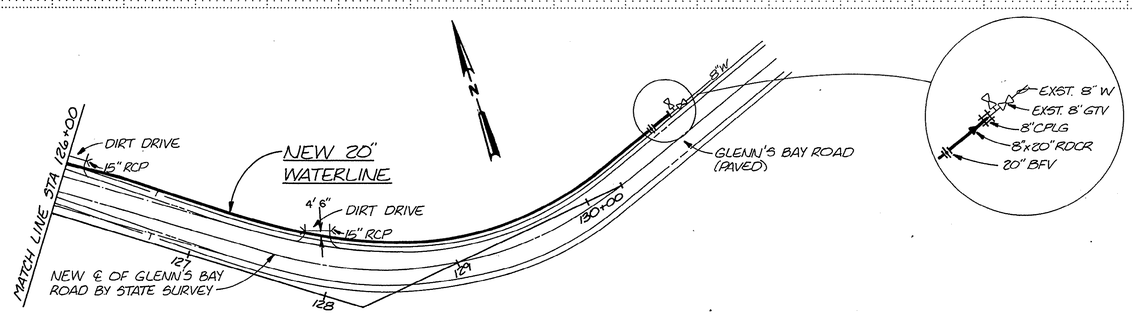
LINE 3 - PLAN AND PROFILE
20" WATERLINE
STA 84+00 TO STA 112+00

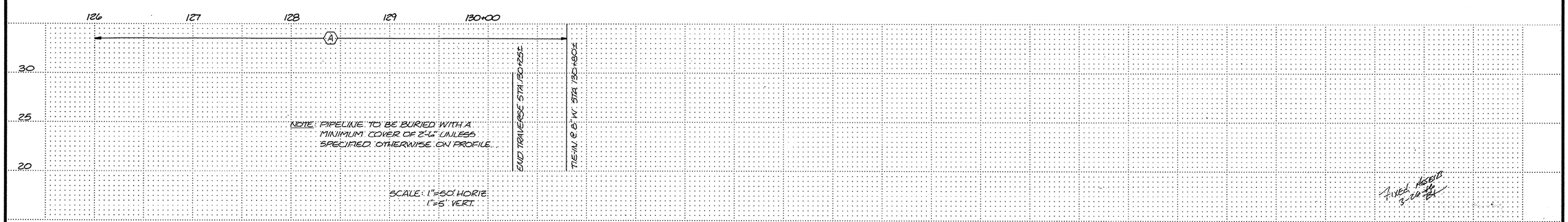
SHEET 16 OF 17
DATE FEB 1985
PROJ. NO. SA17940.A1

OVERLAY SCREEN
PROJ NO.
CONTRACT









RECORD DRAWING
FEB. 10 1986 JR

14-11-017/17-W

NOTE: INSTALL SERVICE CONNECTIONS PER WATER SERVICE AND METER BOX DETAILS. SERVICE CONNECTIONS AND METER BOXES TO BE FIELD-LOCATED BY OWNER.

Fixed Hydrant 3-10-86

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER RICHARD A. HIRSEKORN

CH2M HILL

DSGN	T. SMALLWOOD			
DR	M. HALES			
CHK	C. CRANDALL			
APVD	R. HIRSEKORN	NO.	DATE	REVISION	BY	APVD

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WATER SYSTEM IMPROVEMENTS
BURGESS COMMUNITY
GRAND STRAND WATER & SEWER AUTHORITY

LINE 3 - PLAN AND PROFILE
20" WATERLINE
STA 112+00 TO STA 130+25

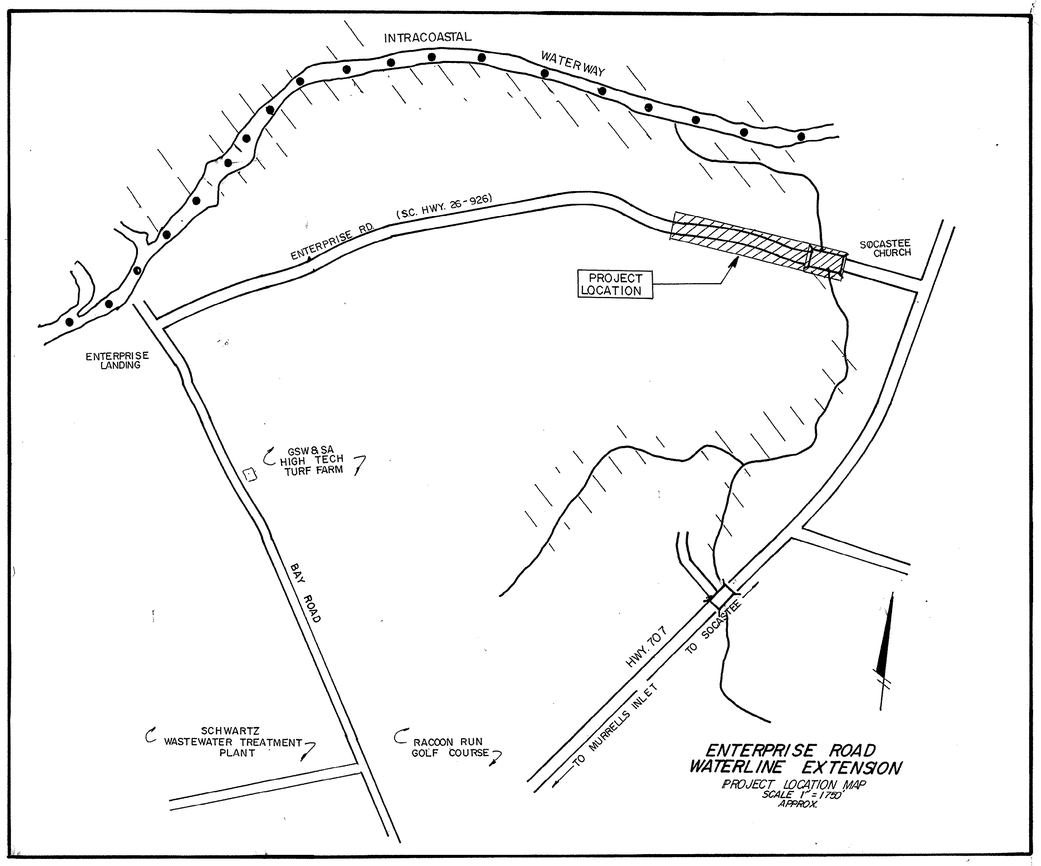
SHEET 17 OF 17
DATE FEB 1985
PROJ NO. SA17940.A1

OVERLAY IDENTIFICATION COMPOSITE OVERLAY SCREEN
PROJ NO.
CONTRACT

ENTERPRISE ROAD WATERLINE EXTENSION

GRAND STRAND WATER & SEWER AUTHORITY

NOVEMBER 1985



APPROVED
By [signature] Date 3/4/87

14-11-COVER SHEET