

19339-1



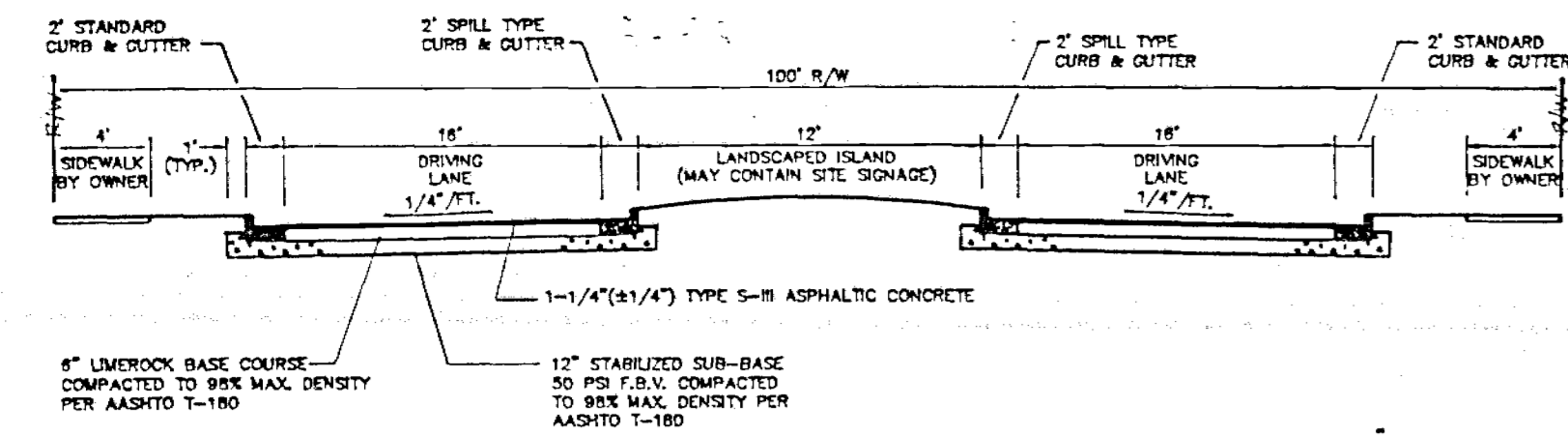
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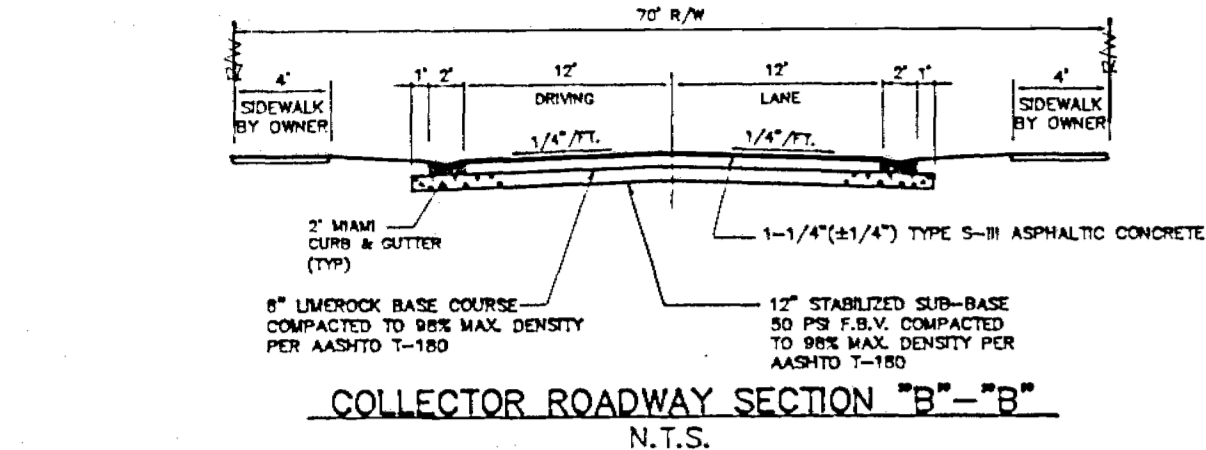
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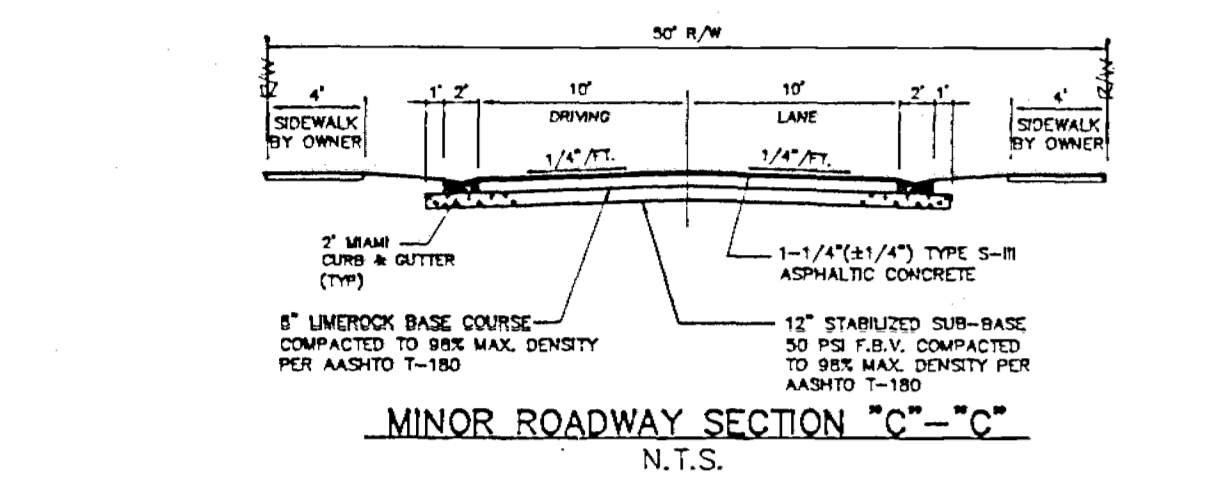
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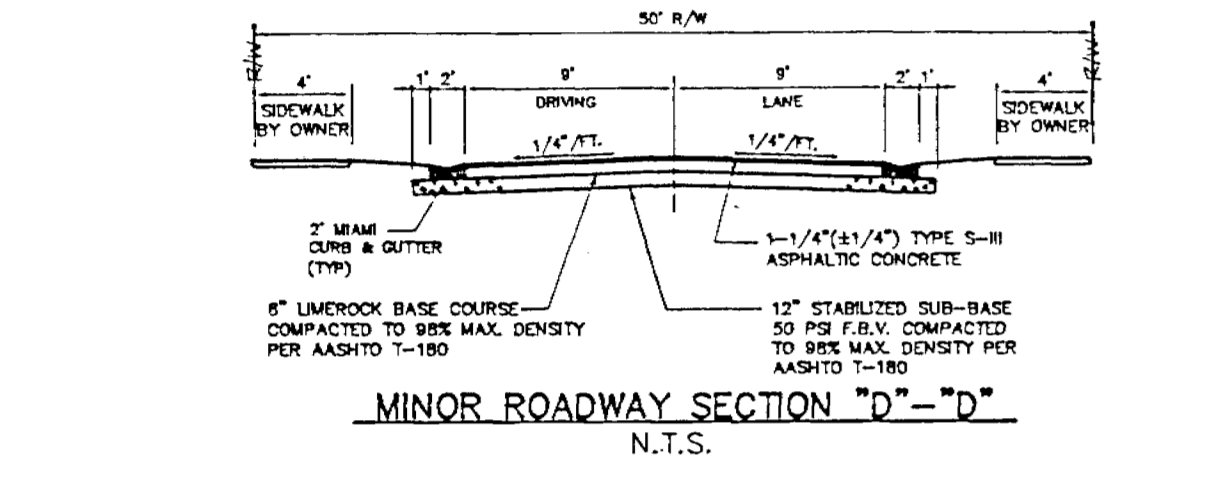
ENTRANCE ROADWAY SECTION "A-A" N.T.S.



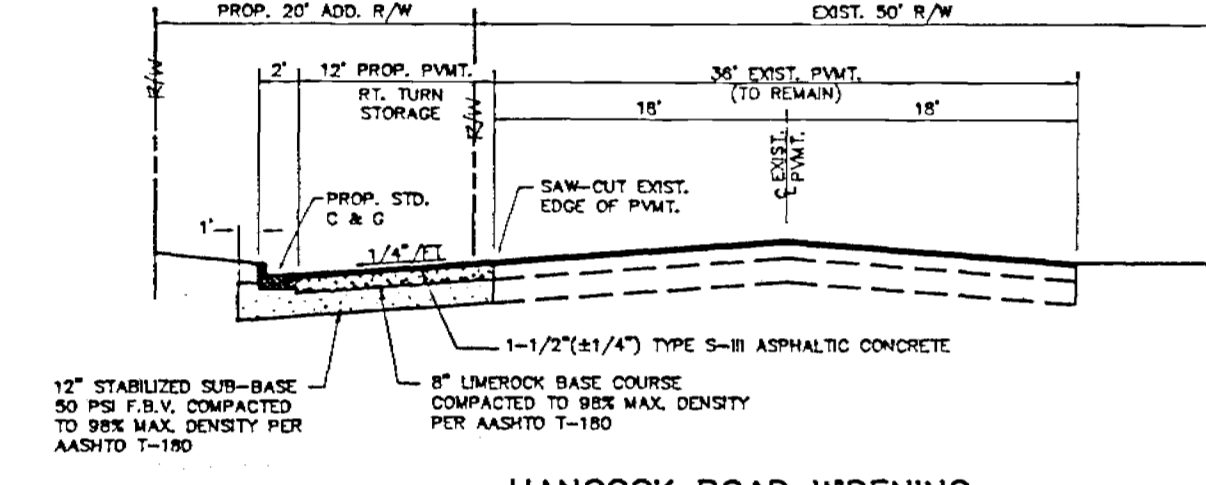
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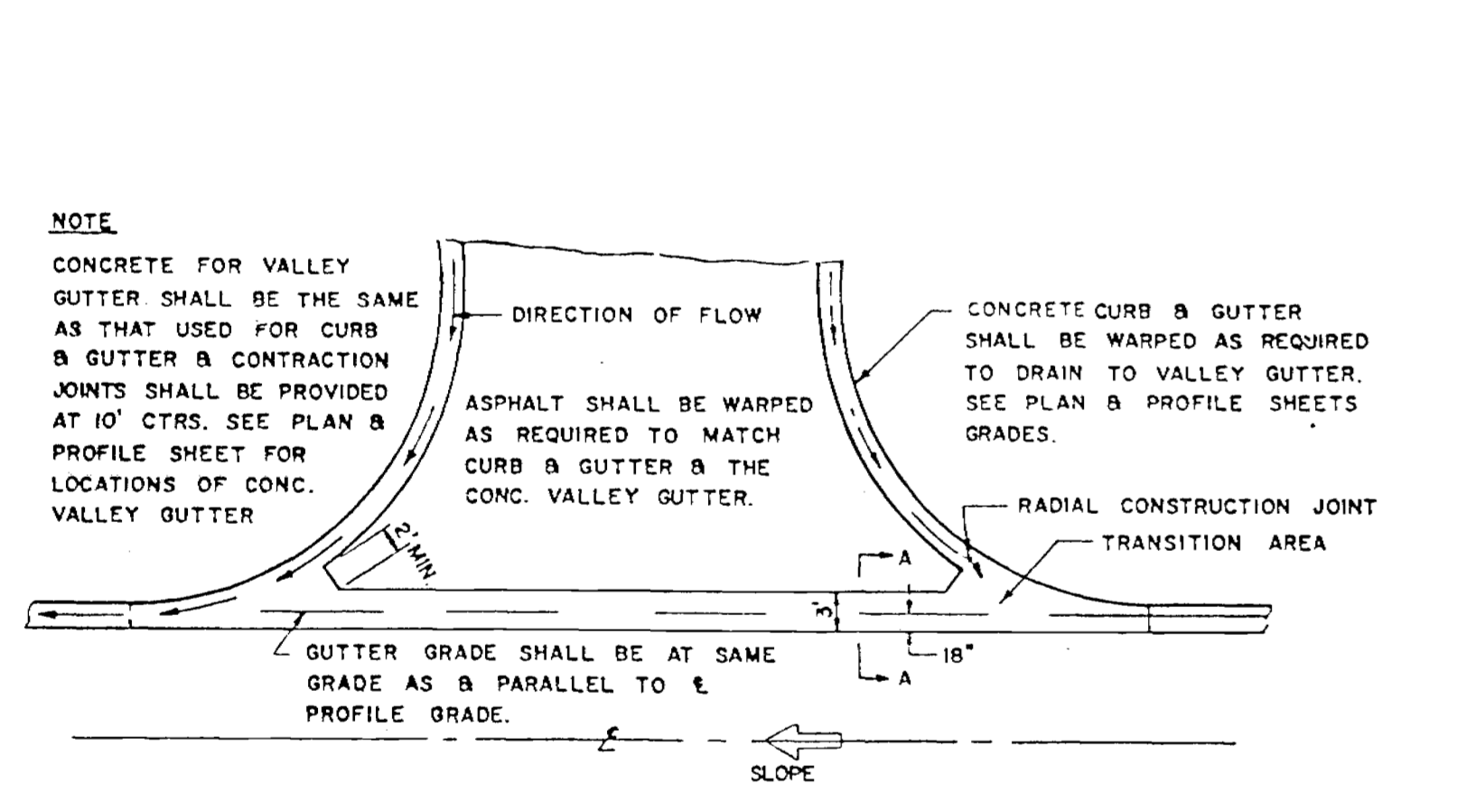
MINOR ROADWAY SECTION "C-C" N.T.S.



MINOR ROADWAY SECTION "D-D" N.T.S.

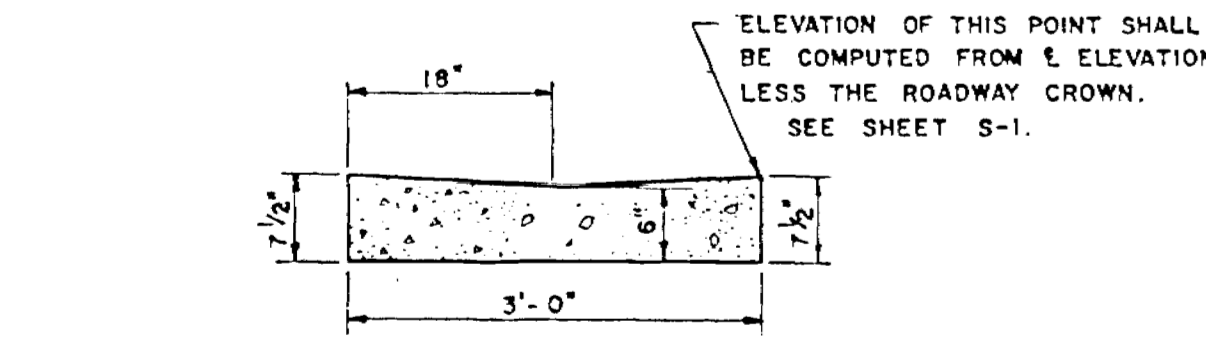


HANCOCK ROAD WIDENING SECTION "E-E" N.T.S.

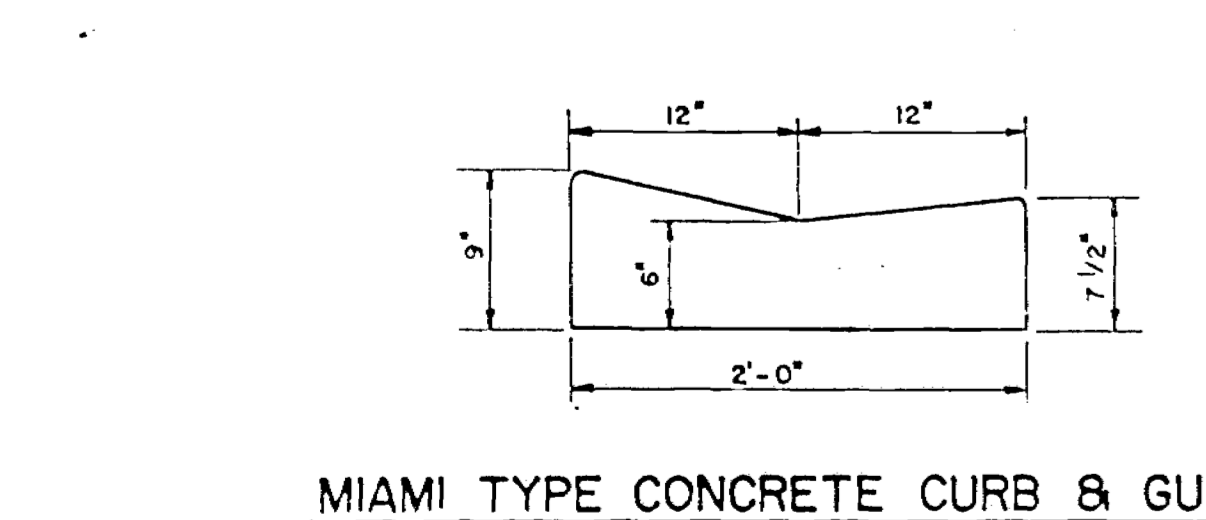


DETAIL CONCRETE VALLEY GUTTER

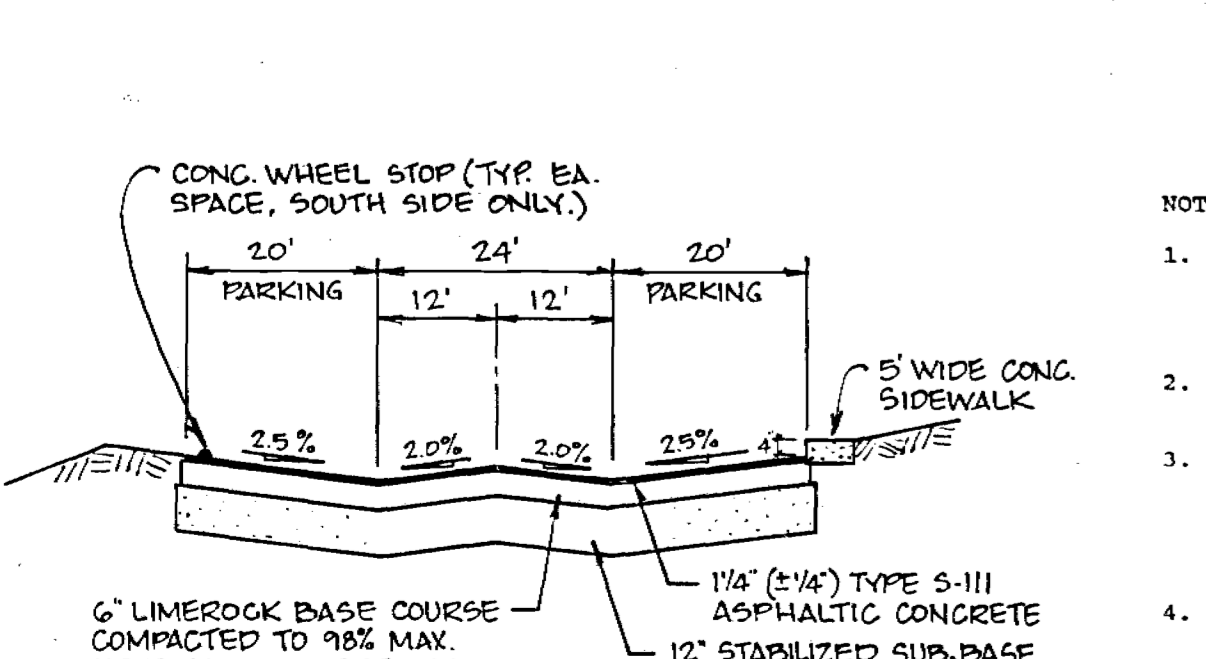
STANDARD CONCRETE CURB & GUTTER



MIAMI TYPE CONCRETE CURB & GUTTER



HANDICAP DETAIL



SECTION "F-F" N.T.S.

- NOTES:
- REFER TO THE PLAN (BY BEN BLACKBURN, PLS. 904/394-4417) FOR ALL BOUNDARY CONTROL, PROPERTY LINE, ROADWAY CENTERLINE AND LOT CENTERLINE DATA. PLAN DATA SHALL OVERTYPE DATA SHOWN ON THIS PLAN.
 - ALL PAYMENT RADIUS ARE TO THE EDGE OF PAVEMENT UNLESS INDICATED OTHERWISE.
 - ALL TRAFFIC STORAGE SHALL CONFORM TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" AND LAKE COUNTY STANDARDS. ALL TRAFFIC CONTROL AND STORAGE SIGNS SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR PRIOR TO INSPECTION BY OWNER, ENGINEER AND COUNTY, AND BEFORE TRAFFIC ACCEPTANCE BY LAKE COUNTY.
 - ALL ROADWAY MATERIALS AND CONSTRUCTION METHODS SHALL MEET THE REQUIREMENTS OF THE POST-STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 1993, OR LATEST EDITION. NO RECYCLED ASPHALT IS TO BE USED.
 - SIDWALKS ARE TO BE CONSTRUCTED WITH OUTER EDGE ON RIGHT-OF-WAY LINE. SLOPE FROM SIDEWALK ALIGNMENT MAY VARY TO AVOID INTERFERENCE WITH SIGNAGE, AND OTHER CONFLICTS, BUT MAINTAIN MINIMUM PERMISSIBLE DISTANCE FROM CURB LINE TO SIDEWALK EDGELINE.

1. ALL LETTERS ARE 1/4" MINIMUM 10" HIGH FOR SIGNAGE.

2. TOP SIGN SHALL HAVE A REFLECTORIZED BLUE BACKGROUND WITH WHITE REFLECTORIZED LETTERS & NUMBER.

3. BOTTOM SIGN SHALL HAVE A REFLECTORIZED WHITE BACKGROUND WITH BLACK OPAQUE LETTERS & NUMBER.

Conklin Porter and Holmes ENGINEERS, INC.
 POST OFFICE BOX 2808
 500 W. FULTON STREET
 SANFORD, FLORIDA 32771
 TEL 407 322-8841 TEL 407 831-5717

DATE	TO	FOR

ACTIVITY	NAME	DATE
DESIGNED BY:	JBM/JCB	8/92
DRAWN BY:	DEF	8/92
CHECKED BY:	JCB	8/92
APPROVED BY:	J.C.BRANCH	8/92
REGISTRATION NO.	34791	NO. DATE

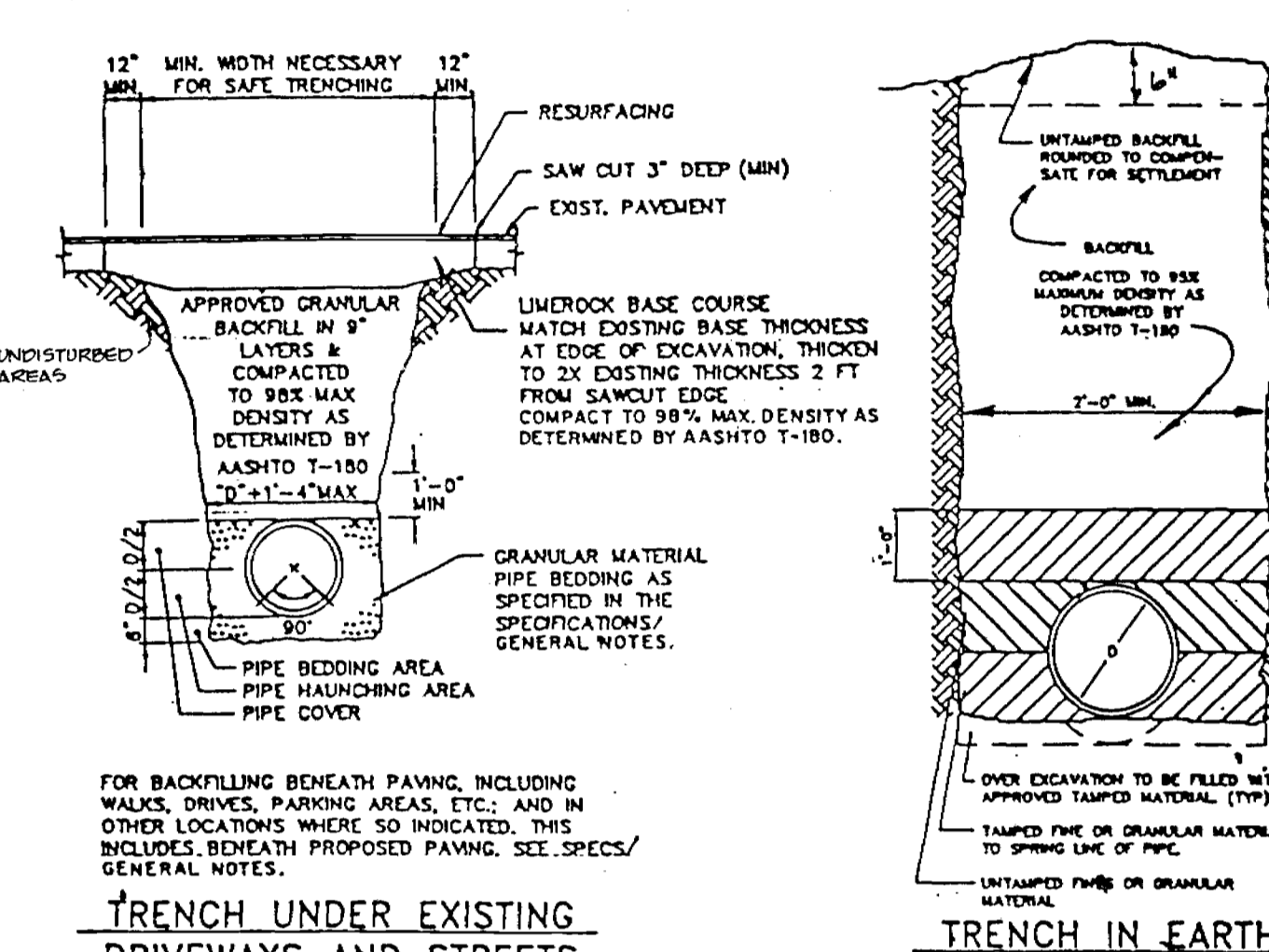
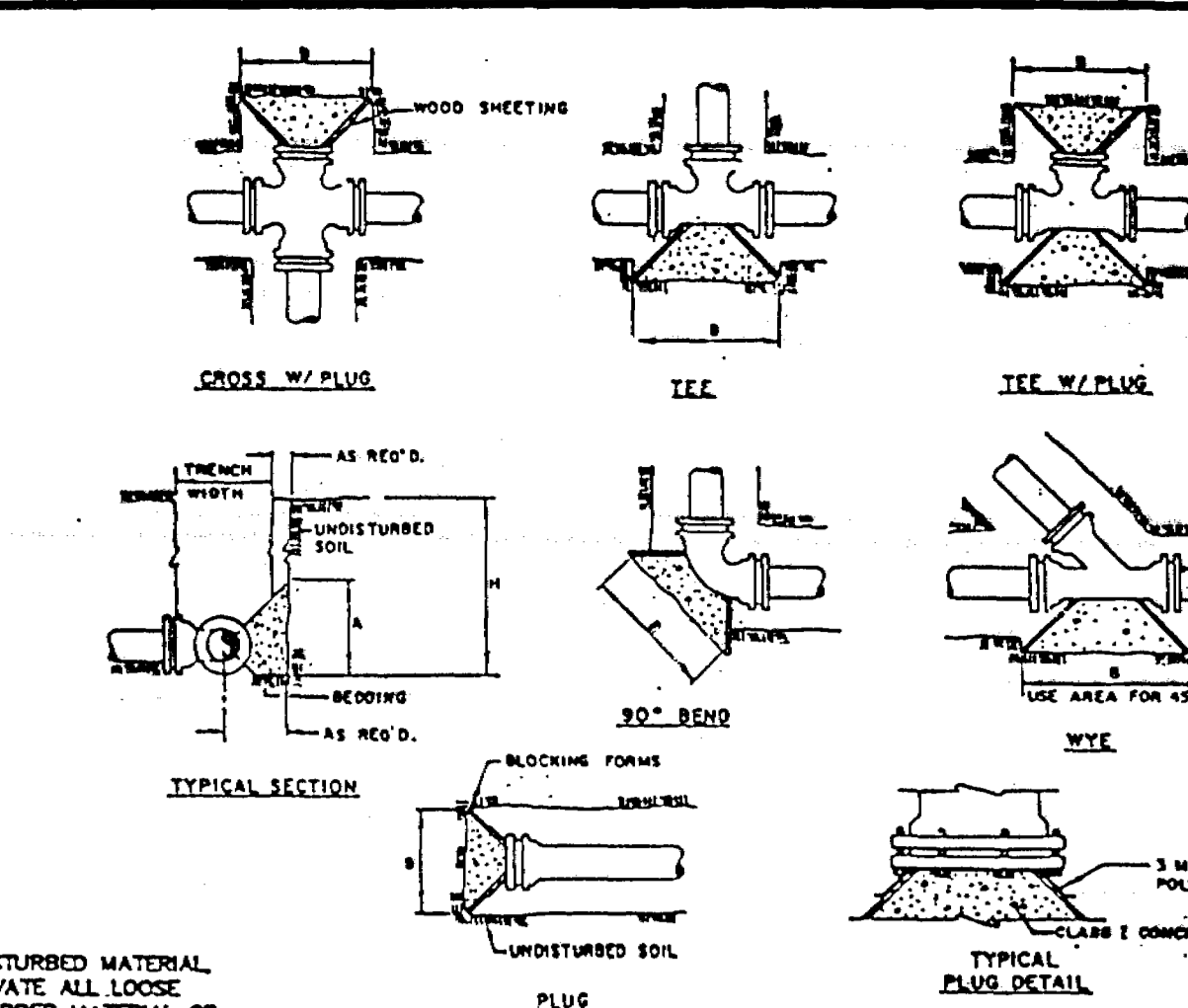
SITE DIMENSION AND TRAFFIC CONTROL PLAN		SCALE: 1"=50'	SHEET NO.
GREATER PINES PHASE 1		DATE: AUG. 1992	2 OF 7
LAKE COUNTY, FLORIDA		JOB NO. G8765.01	FILE: GPBASE3

RECEIVED
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 DELIVERED
 [Signature]

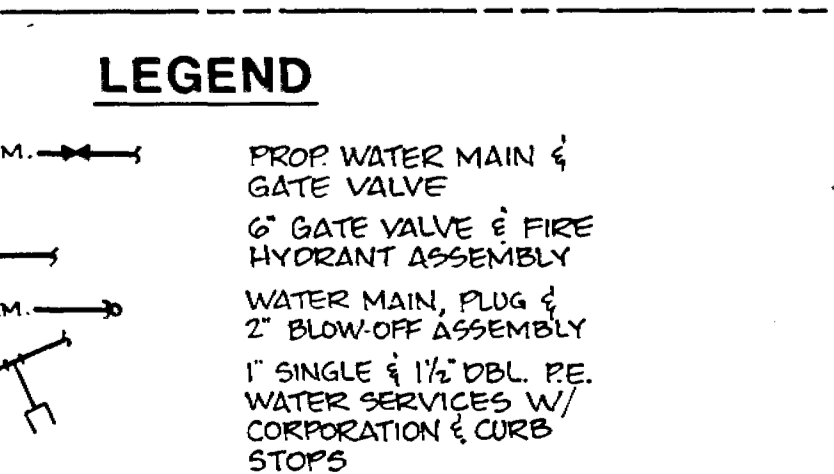
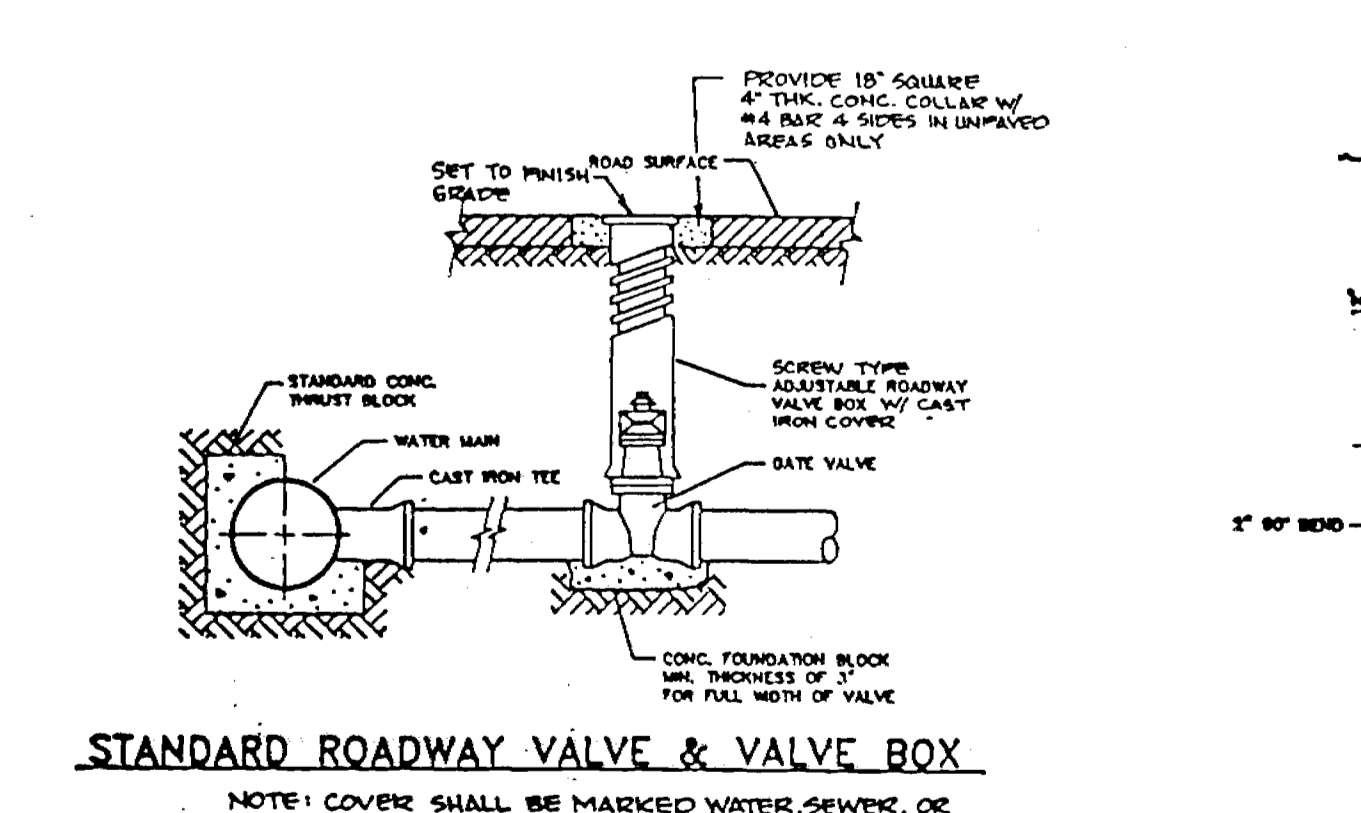
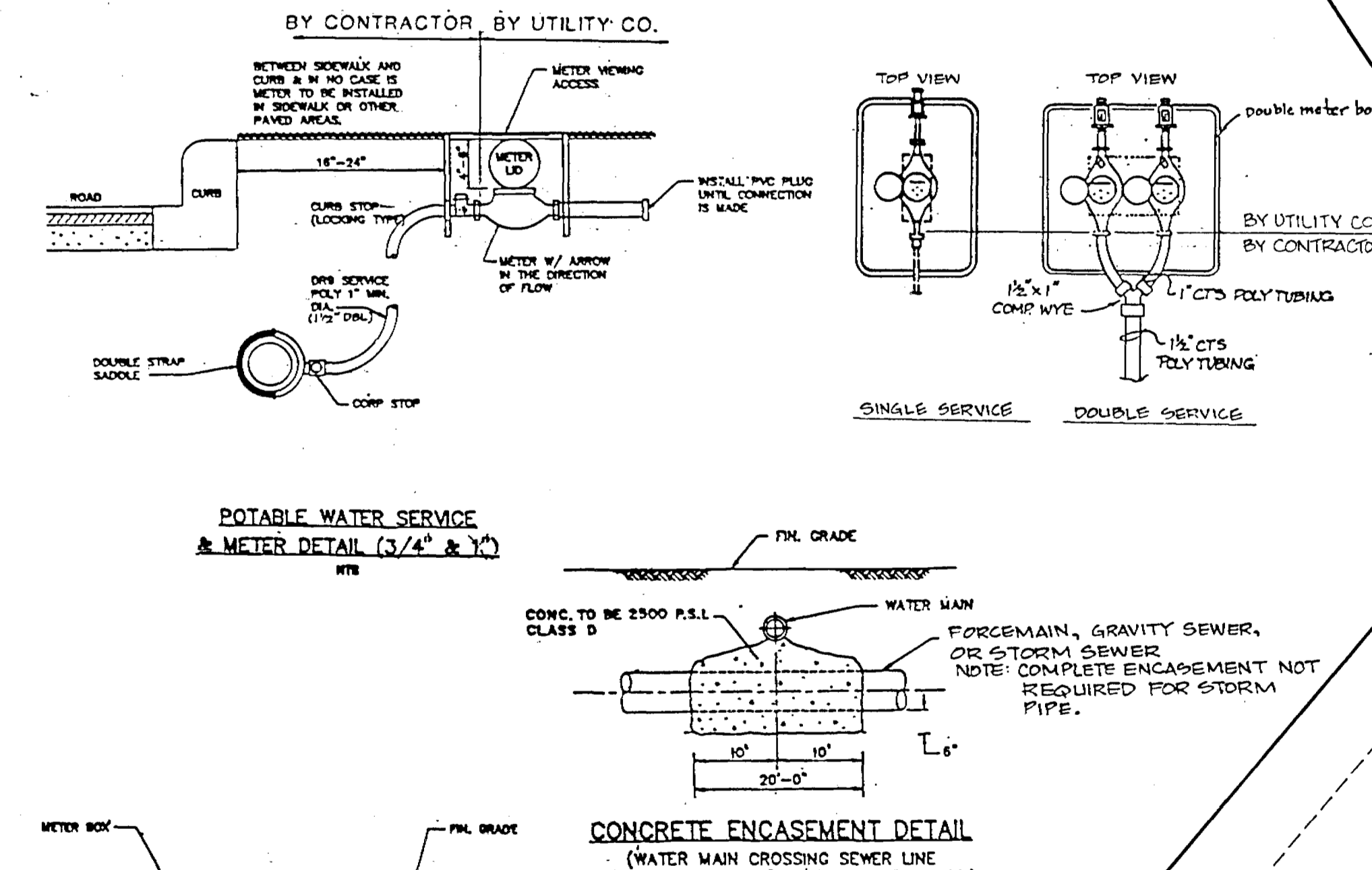
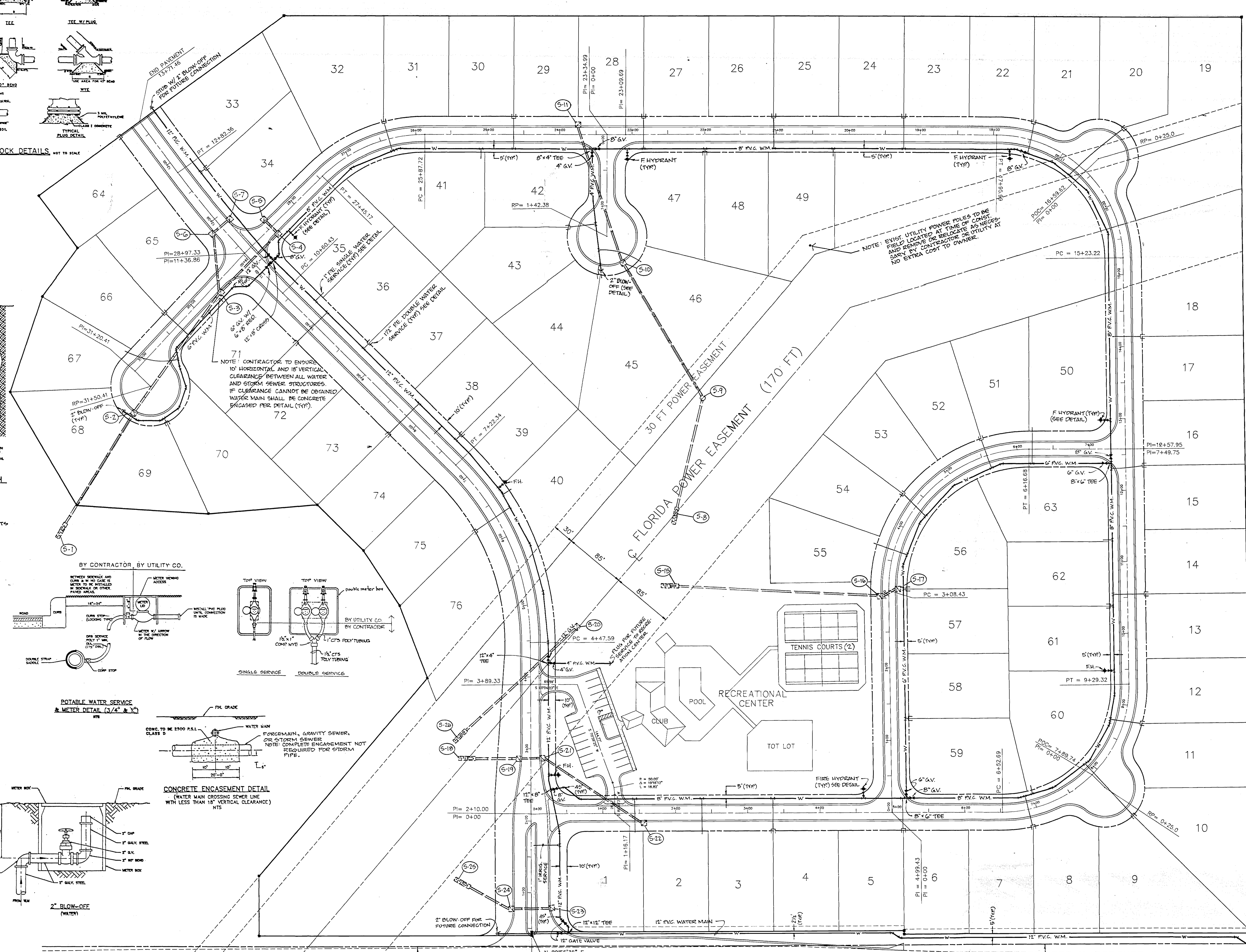
PIPE SIZE (INCH)	90° BEND	45° TEES, PLUGS	45° BEND	180° BEND
4"	1.8	0.9	0.4	0.2
6"	2.8	1.3	0.7	0.3
8"	3.8	1.9	1.0	0.5
10"	4.8	2.5	1.3	0.7
12"	5.8	3.1	1.6	0.9
14"	6.8	3.7	1.9	1.1
16"	7.8	4.3	2.2	1.3
18"	8.8	5.0	2.5	1.5
20"	9.8	5.7	2.8	1.7
24"	11.8	6.9	3.4	2.1
30"	14.8	8.7	4.2	2.7
36"	17.8	10.5	5.0	3.2
42"	20.8	12.3	5.8	3.7
48"	23.8	14.1	6.6	4.2
54"	26.8	15.9	7.4	4.7

- THRUST BLOCK NOTES:**
- THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED MATERIAL. WHERE TRENCH WALLS HAVE BEEN DISTURBED, COARSE, ALL LOOSE MATERIAL AND EXISTING THRUST BLOCK TO UNDISTURBED MATERIAL OR THE FILL. BEFORE POURING SURFACE AND UNDISTURBED SOIL MUST BE COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557.
 - ON TEES AND BENDS, EXTEND THRUST BLOCK FULL LENGTH, BUT MUST BE BLENDED IN FRONT OF PLUG BEFORE POURING CONCRETE THRUST BLOCK.
 - SIDE OF BLOCKS SHALL BE FORMED. WOOD FORMS SHALL BE PREVIOUSLY TREATED WITH PRESERVATIVE.
 - BACKFILL SHALL CONSIST ENTIRELY OF CLEAN SAND AND ROCK FRAGMENTS. ANY MUCK ENCOUNTERED SHALL BE REPLACED WITH ACCEPTABLE BACKFILL.
 - BLOCK WIDTH "A" SHALL BE EQUAL TO OR LESS THAN ONE-HALF OF THE TOTAL DEPTH OF BURY. "B", BUT NOT LESS THAN THE PIPE DIAMETER.
 - THRUST BLOCK AREAS BASED ON A SOIL BEARING STRENGTH OF 2000 PSF AND A DESIGN TEST PRESSURE OF 100 PSF FOR FORCE MAIN AND 150 PSF FOR WATER MAIN.
 - BLOCKS FOR ALL BENDS SHALL BE SIMILAR TO BLOCKS FOR 90° BENDS.
 - RISE AND SPREAD OF BLOCKS NOT TO EXCEED 45° ANGLE.
 - ALL PLUGS AND FITTINGS SHALL BE PROTECTED FROM CONCRETE WITH 3/4" POLYETHYLENE.

THRUST BLOCK DETAILS



- TRENCH UNDER EXISTING DRIVEWAYS AND STREETS**
- TRENCH SHALL BE AS NARROW AS POSSIBLE TO ALLOW FOR SAFE AND PROPER WATER MAIN INSTALLATION. TRENCH WALLS SHALL BE REINFORCED TO 100% STRENGTH. ALL TRENCH SHALL BE 6" DEEPER THAN REQUIRED. TRENCH SHALL BE BACKFILLED WITH UNDISTURBED SAND AND ROCK FRAGMENTS TO 95% MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557. ALL TRENCH SHALL BE PROTECTED FROM CONCRETE WITH 3/4" POLYETHYLENE.
 - ALL TRENCH SHALL BE PROTECTED FROM CONCRETE WITH 3/4" POLYETHYLENE.
 - ALL TRENCH SHALL BE PROTECTED FROM CONCRETE WITH 3/4" POLYETHYLENE.



ACTIVITY	NAME	DATE	APPROVED
DESIGNED BY:	JBM/JCB	8/92	
DRAWN BY:	DEF	8/92	
CHECKED BY:	JCB	8/92	
APPROVED BY:	J.C.BRANCH	8/92	
REGISTRATION NO.	34791		

WATER DISTRIBUTION SYSTEM

GREATER PINES PHASE 1

SCALE: 1"=50'

DATE: AUG. 1992

JOB NO. G6765.01

FILE: GPBASE3

SHEET NO. 3 OF 7

DATE: OCT-5-1992

BY: J.C.BRANCH

REVISION: 1

APPROVED: [Signature]

Conklin Porter and Holmes ENGINEERS, INC.

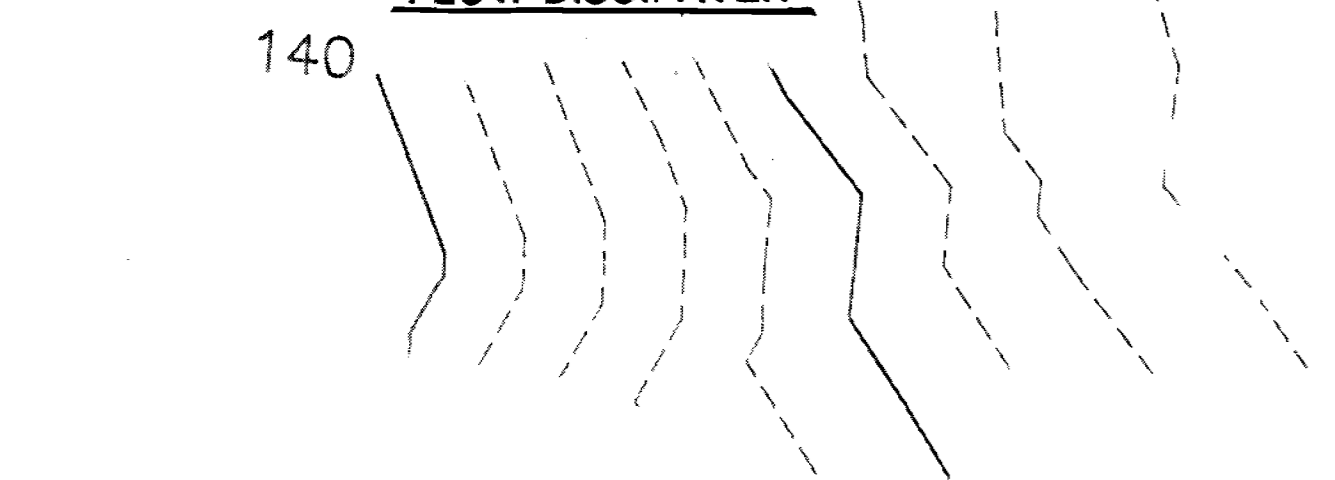
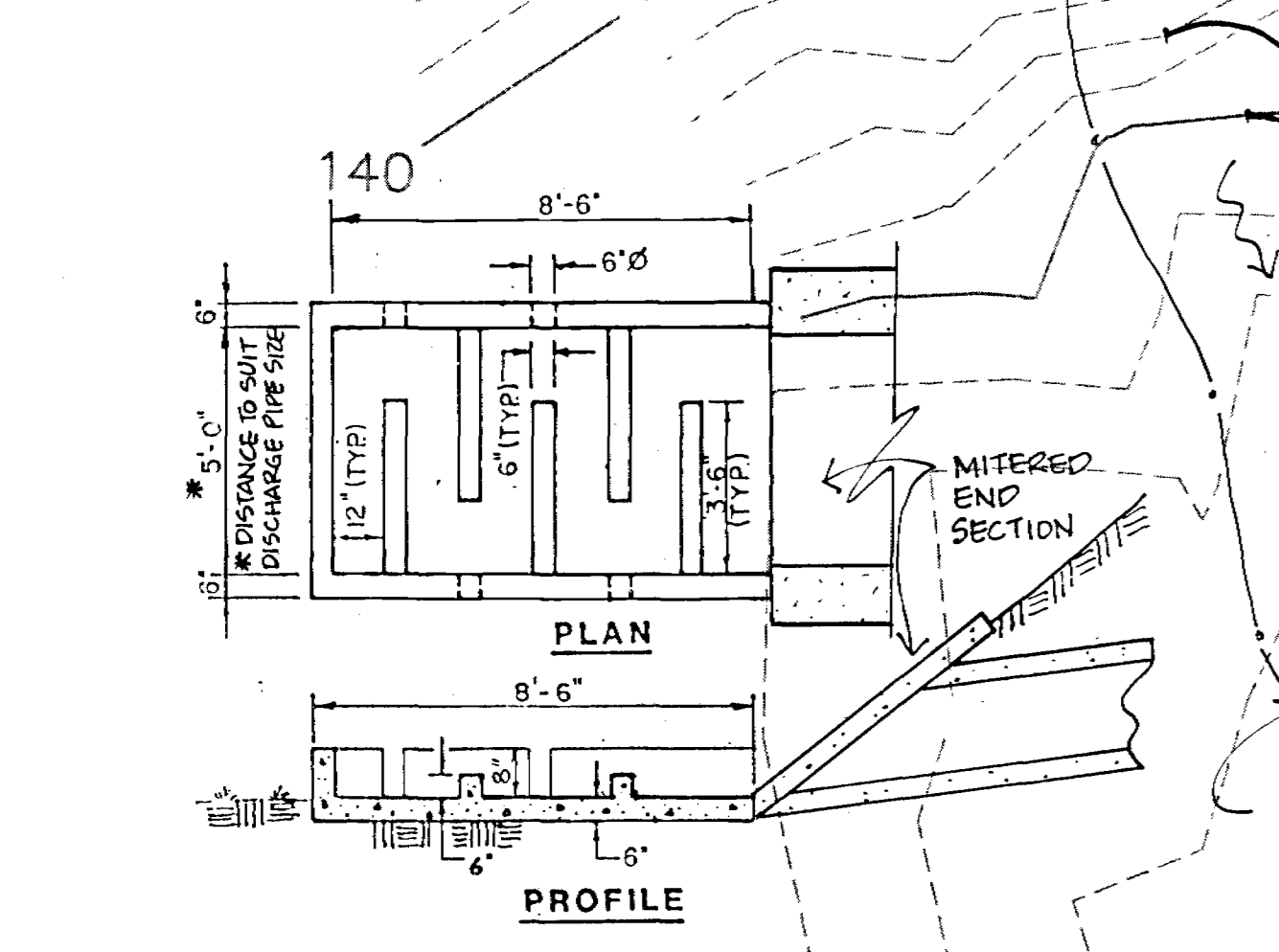
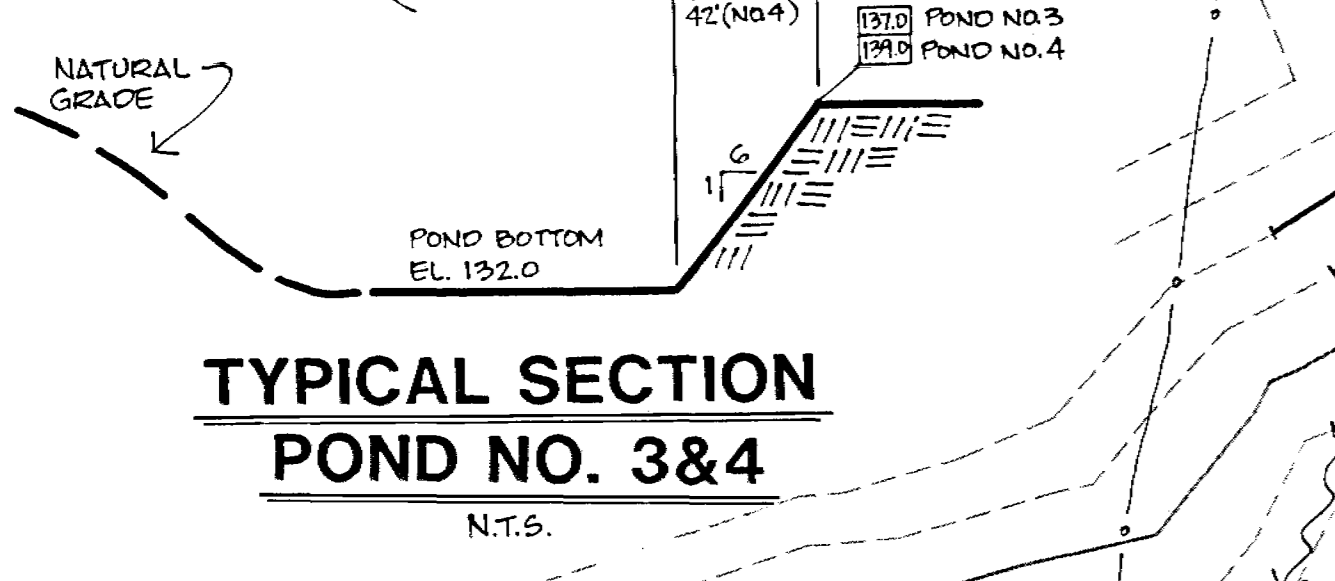
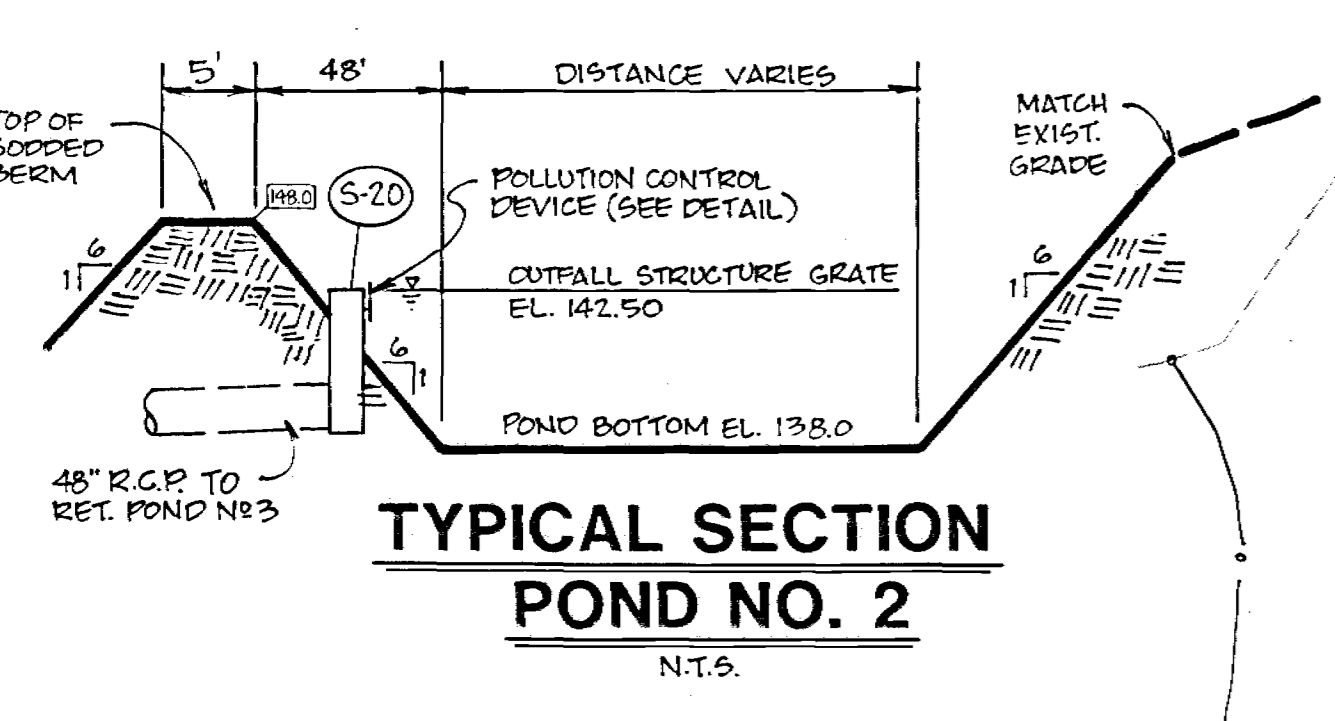
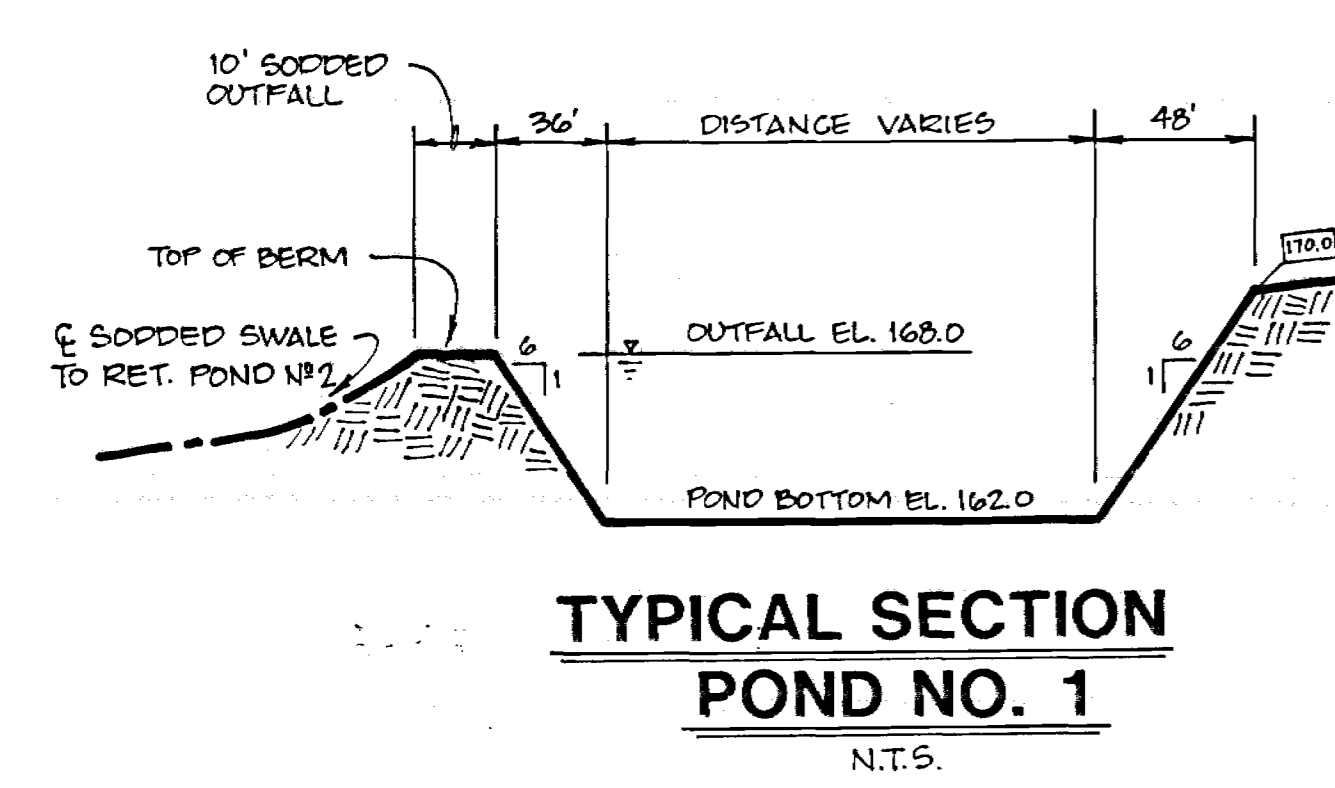
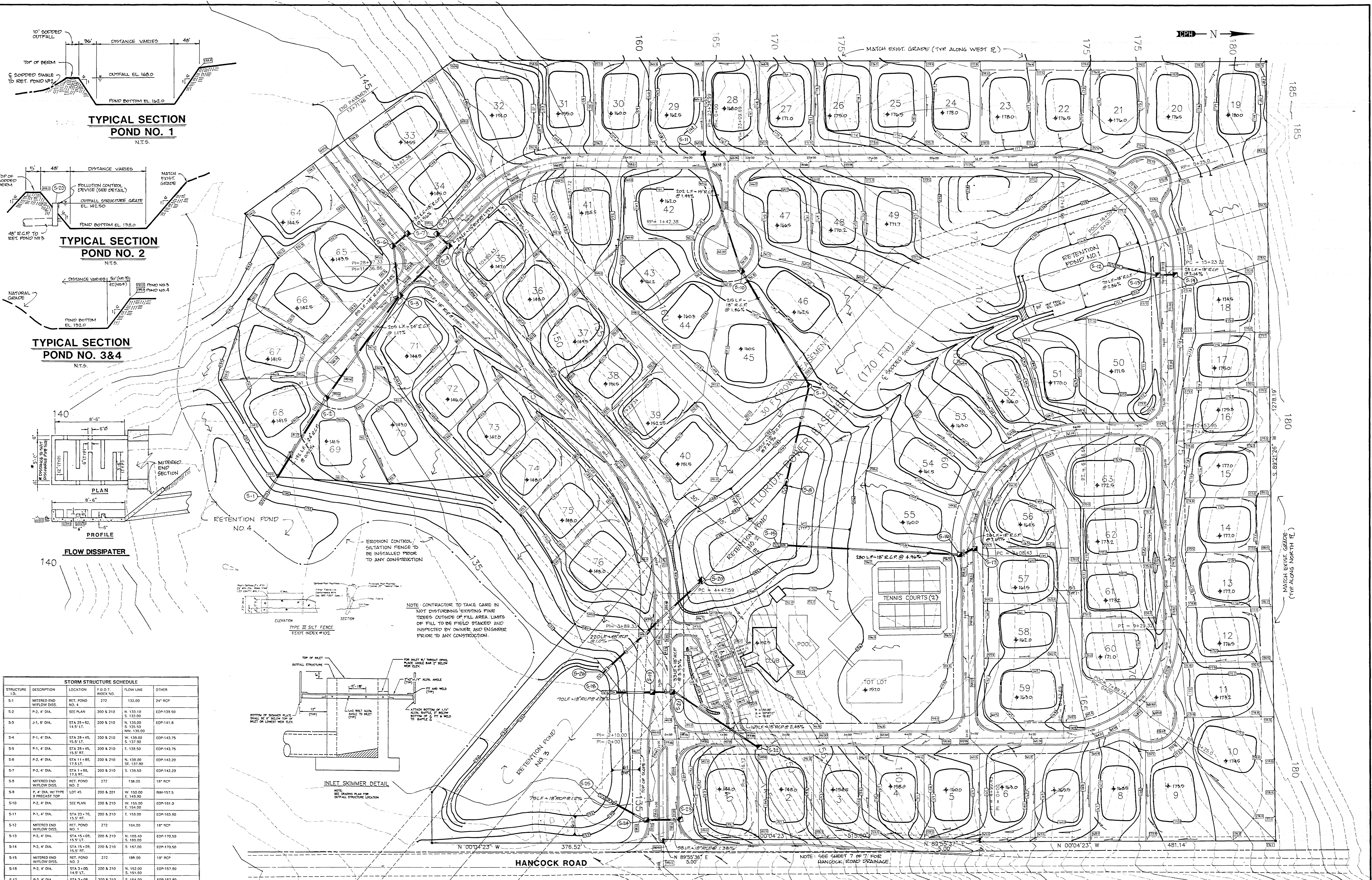
POST OFFICE BOX 2808

500 W. FULTON STREET

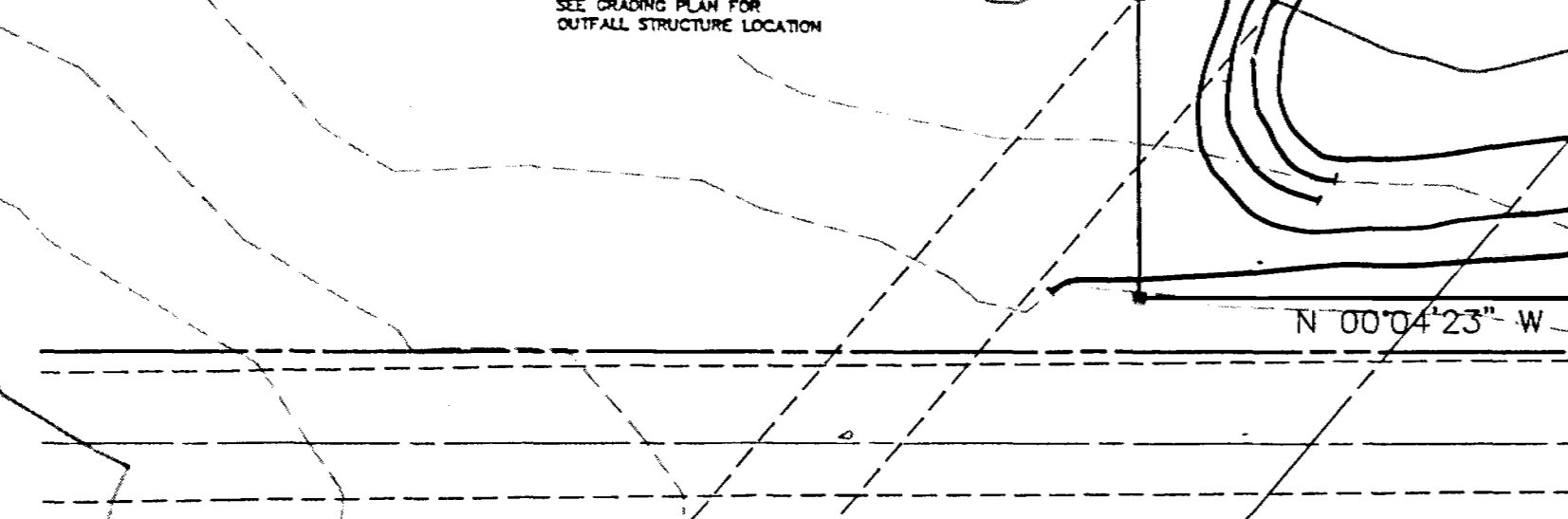
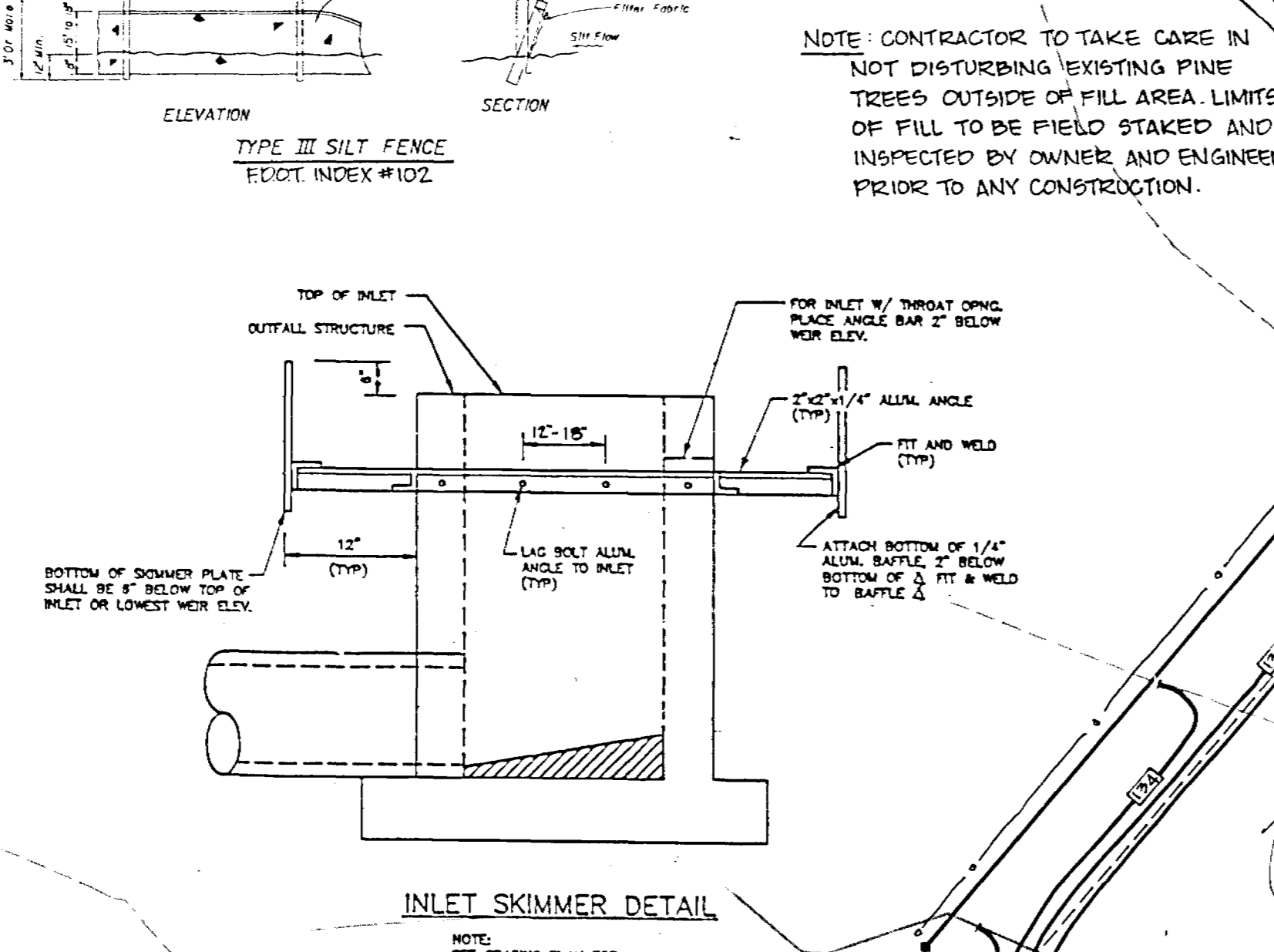
SANFORD, FLORIDA 32771

TEL 407 322-6841 TEL 407 831-5171

DATE: _____ TO: _____ FOR: _____



STRUCTURE I.D.	DESCRIPTION	LOCATION	F.O.D.T. INDEX NO.	FLOW LINE	OTHER
S-1	MITERED END W/LOW DISS.	RET. POND NO. 4	272	132.00	24" RCP
S-2	P.2, 4' DIA.	SEE PLAN	200 & 210	N. 133.10 S. 133.00	EDP-139.50
S-3	P.1, 6' DIA.	STA 29+82, 18.5' LT.	200 & 210	N. 135.00 S. 135.50 NOV. 138.00	EDP-141.8
S-4	P.1, 4' DIA.	STA 28+45, 15.5' LT.	200 & 210	N. 138.00 S. 137.90	EDP-143.75
S-5	P.1, 4' DIA.	STA 18+45, 15.5' LT.	200 & 210	N. 138.50 S. 137.90	EDP-143.75
S-6	P.2, 4' DIA.	STA 11+85, 15.5' LT.	200 & 210	N. 133.00 S. 132.90	EDP-142.20
S-7	P.2, 4' DIA.	STA 1+86, 17.5' RT.	200 & 210	N. 138.50 S. 138.50	EDP-142.20
S-8	MITERED END W/LOW DISS.	RET. POND NO. 2	272	138.00	18" RCP
S-9	P.4 DIA. W/ TYPE II BREAKER TOP	LOT 45	200 & 201	W. 150.00 E. 149.90	RIM-157.5
S-10	P.2, 4' DIA.	SEE PLAN	200 & 210	W. 155.00 E. 154.00	EDP-181.0
S-11	P.1, 4' DIA.	STA 23+10, 15.5' RT.	200 & 210	N. 158.00 S. 157.90	EDP-163.90
S-12	MITERED END W/LOW DISS.	RET. POND NO. 1	272	164.00	18" RCP
S-13	P.2, 4' DIA.	STA 15+09, 15.5' LT.	200 & 210	N. 169.40 S. 169.00	EDP-170.50
S-14	P.2, 4' DIA.	STA 15+09, 15.5' RT.	200 & 210	N. 167.00 S. 167.00	EDP-170.50
S-15	MITERED END W/LOW DISS.	RET. POND NO. 2	272	138.00	18" RCP
S-16	P.2, 4' DIA.	STA 3+00, 14.5' LT.	200 & 210	N. 152.00 S. 151.00	EDP-157.80
S-17	P.2, 4' DIA.	STA 3+00, 14.5' RT.	200 & 210	N. 154.00 S. 154.00	EDP-157.80
S-18	MITERED END W/LOW DISS.	RET. POND NO. 3	272	132.00	18" RCP
S-19	P.1, 4' DIA.	STA 1+14, 18.5' LT.	200 & 210	N. 135.20 S. 135.00 NOV. 135.00	EDP-141.20
S-20	TYPE III W/LOW CONTROL	RET. POND NO. 2	232	SE. 134.20	STL. RETICULATE GRATE
S-21	P.2, 4' DIA.	STA 3+14, 18.5' RT.	200 & 210	N. 136.80 S. 136.50	EDP-141.20
S-22	P.1, 4' DIA.	STA 2+43, 15.5' LT.	200 & 210	SW. 141.00	EDP-146.14
S-23	P.1, 4' DIA.	STA 0+77, 28' RT.	200 & 210	N. 133.80 S. 133.80	EDP-137.83
S-24	P.1, 4' DIA.	STA 0+77, 28' LT.	200 & 210	N. 133.00 S. 132.90	EDP-137.83
S-25	MITERED END W/LOW DISS.	RET. POND NO. 3	272	132.00	18" RCP
S-26	MITERED END W/LOW DISS.	RET. POND NO. 3	272	SE. 132.00	48" RCP



NOTE:
 1. ALL STORM STRUCTURES AND PIPING USED SHALL BE CONSTRUCTED AND INSTALLED PER F.D.O.C. AND LAKE COUNTY REQUIREMENTS. ALL STRUCTURES HAVE BEEN REFERENCED TO AN F.D.O.C. SURVEY NO. THE CONTRACTOR SHALL REVIEW AND COMPLY WITH THE DETAILS THEREIN.
 2. NO CONSTRUCTION ACTIVITY SHOULD TAKE PLACE BEYOND ANY ENVIRONMENTAL DESIGNATED AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DESTRUCTION WITHIN THESE AREAS.
 3. THE CONTRACTOR SHALL OBTAIN A COPY OF ALL EXISTING PERMITS AND BE RESPONSIBLE FOR ABIDING BY ALL REQUIREMENTS ISSUED BY THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, LAKE COUNTY AND ANY OTHER JURISDICTIONAL AGENCIES.
 4. ANY DISCREPANCY WITH GRADE ELEVATIONS AS DESIGNED AND EXISTING FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION IN THAT PARTICULAR AREA.
 5. CONTRACTOR IS TO GRADE THE PROPOSED ELEVATIONS AS INDICATED. ANY SUBSTANTIAL DIFFERENCE OTHER THAN OWNER OR ENGINEER APPROVED SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
 6. FINISH GRADE FOR HOUSE PADS SHALL BE GRADED 12" BELOW THE FINISHED FLOOR ELEVATION AS INDICATED.

NOTE CONTRACTOR TO TAKE CARE IN NOT DISOBTAINING EXISTING PINE TREES OUTSIDE OF FILL AREA LIMITS OF FILL TO BE FIELD STAKED AND INSPECTED BY OWNER AND ENGINEER PRIOR TO ANY CONSTRUCTION.

LEGEND
 - - - - - EXISTING CONTOUR
 - - - - - PROPOSED CONTOUR
 - - - - - PROPOSED OPT. ELEV.
 - - - - - PROPOSED MITERED END SECT. & FLOW DISSIPATOR
 - - - - - PROP. STORM SYSTEM W/ INLET
 - - - - - PROP. FIN. FLOOR ELEV.
 + 170.0

Conklin Porter and Holmes
 cph ENGINEERS, INC.
 POST OFFICE BOX 2908
 500 W. FULTON STREET
 SANFORD, FLORIDA 32771
 TEL. 407.322-8841 TEL. 407.831-5717

DATE	TO	FOR

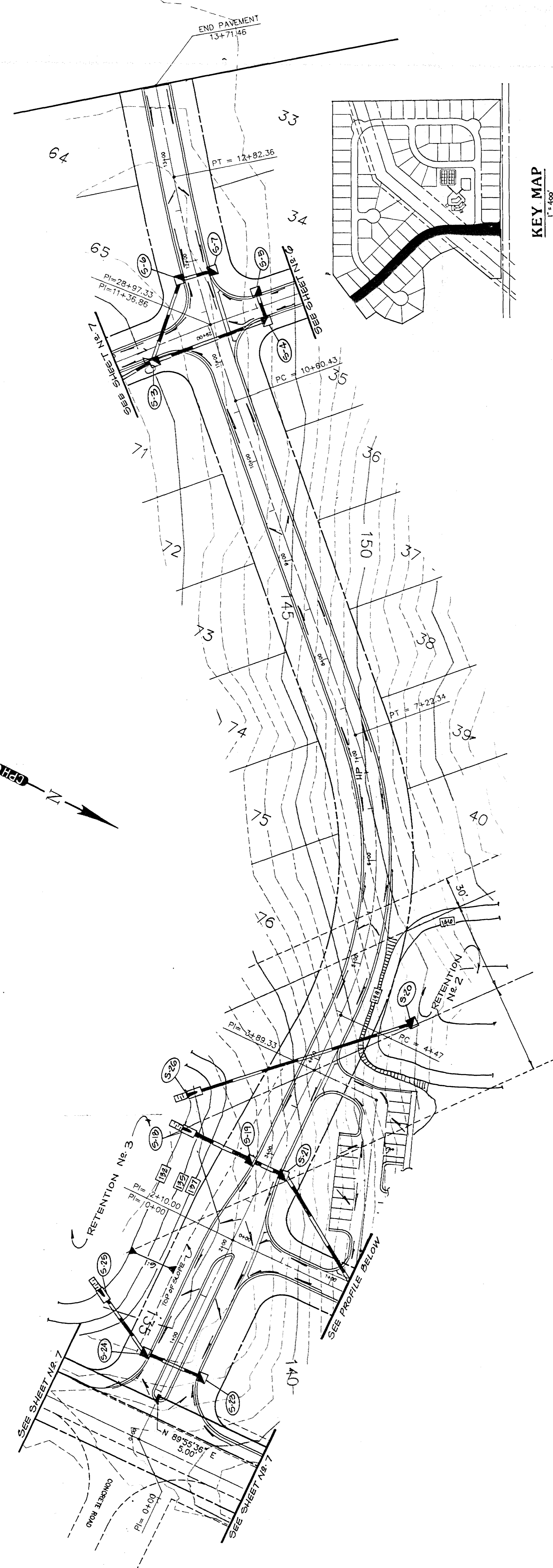
ACTIVITY	NAME	DATE
DESIGNED BY:	JBM/JCB	8/92
DRAWN BY:	DEF	8/92
CHECKED BY:	JCB	8/92
APPROVED BY:	J.C.BRANCH	8/92
REGISTRATION NO.	34791	

NO.	DATE	REVISION	APPROVED

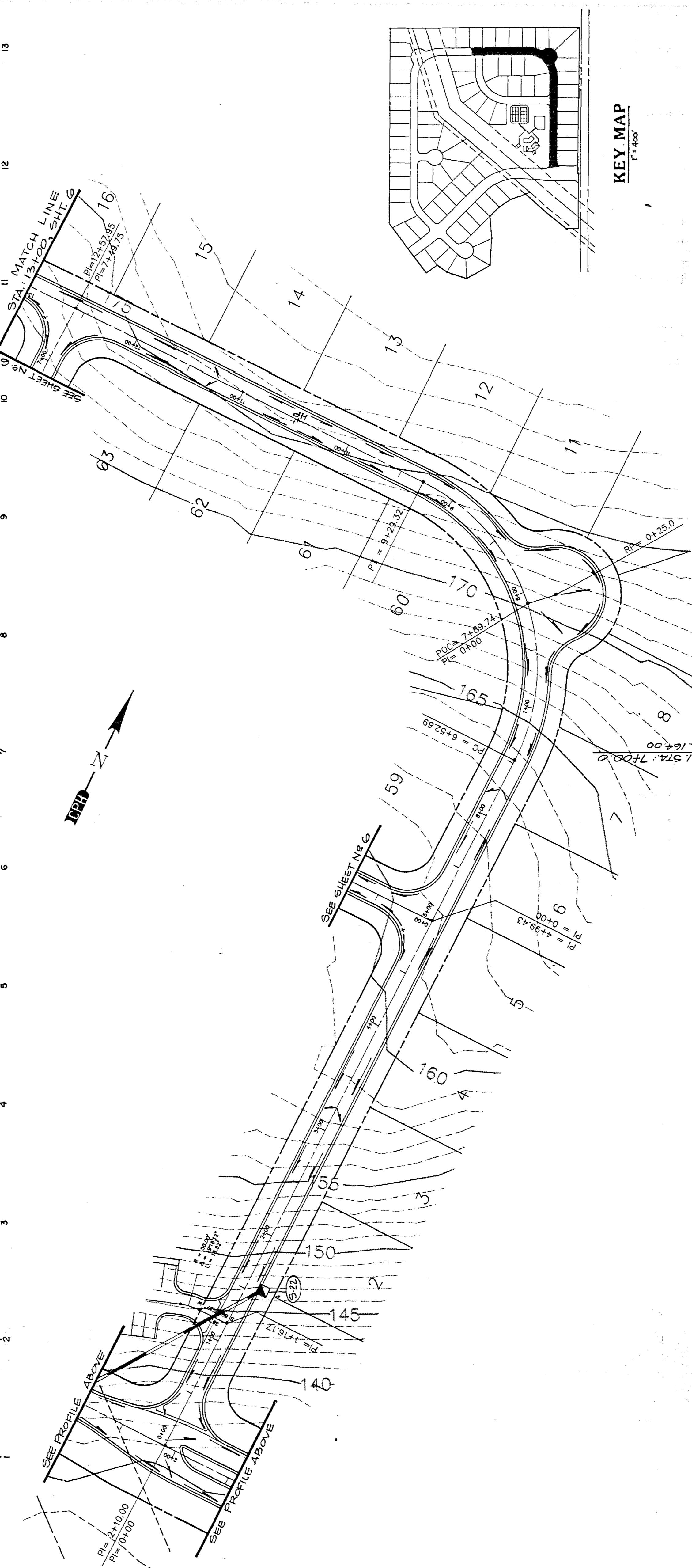
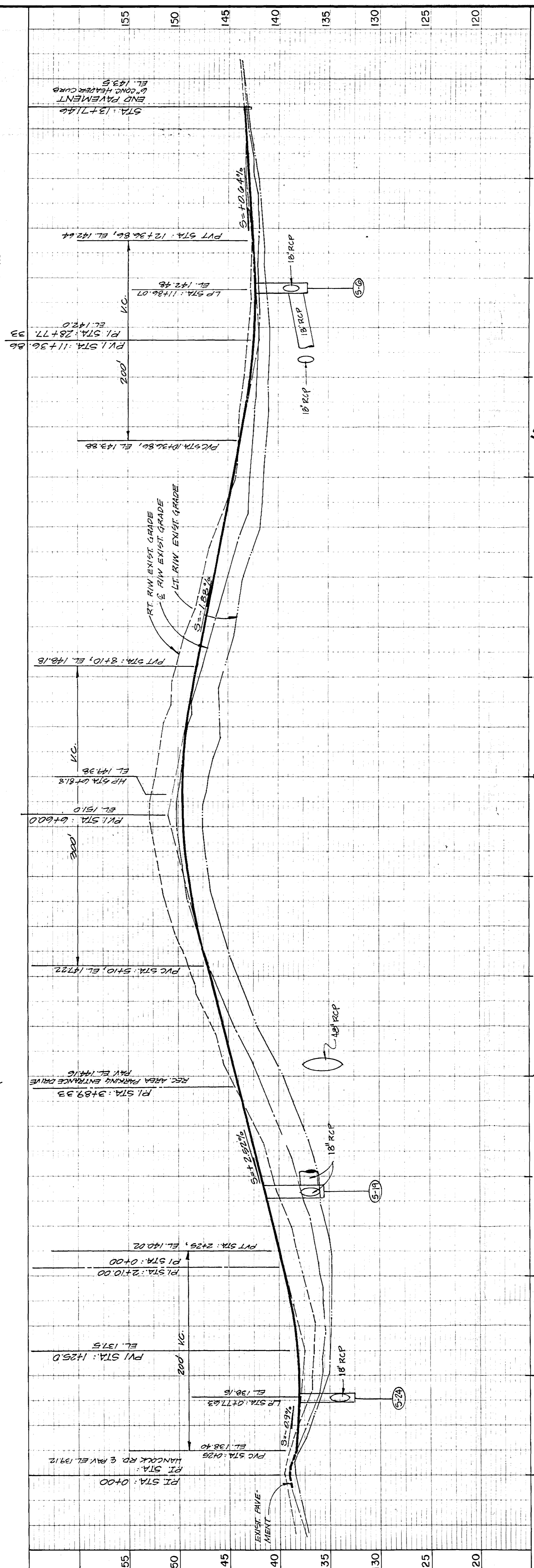
GRADING PLAN
 GREATER PINES
 PHASE 1
 LAKE COUNTY, FLORIDA

SCALE: 1"=50'
 DATE: AUG. 1992
 JOB NO. G6785.01
 FILE: GPBASE3

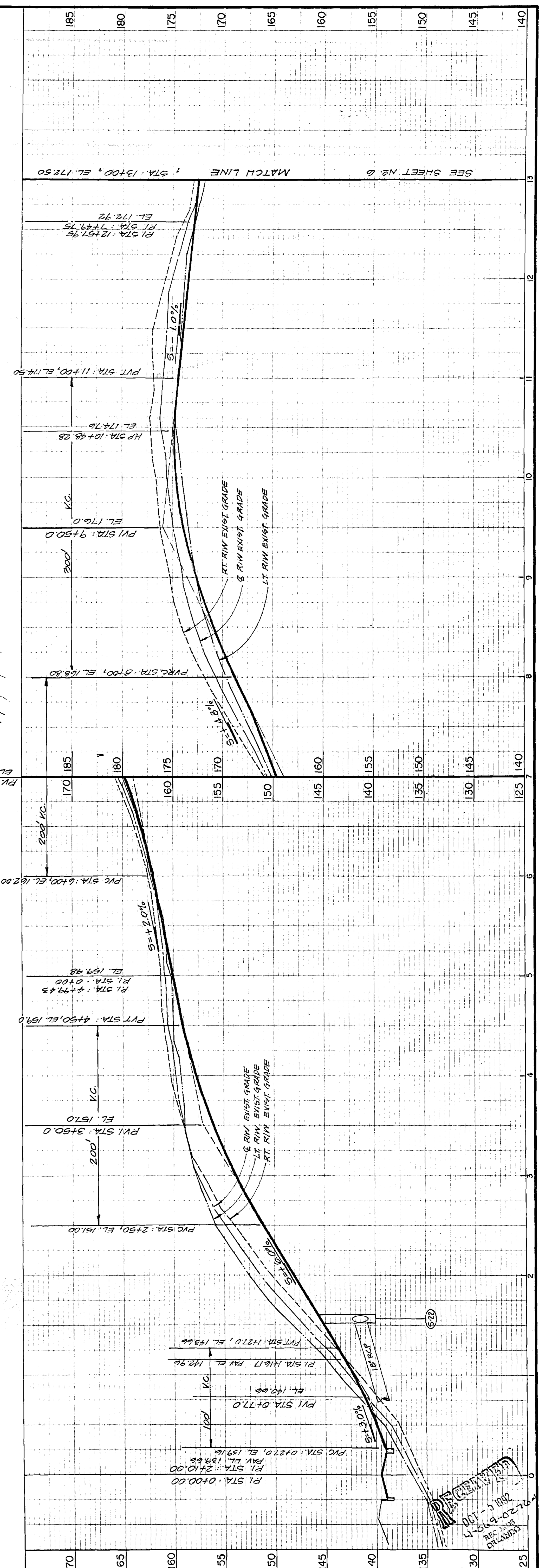
SHEET NO.
 4 OF 7



KEY MAP
1"=400'



KEY MAP
1"=400'

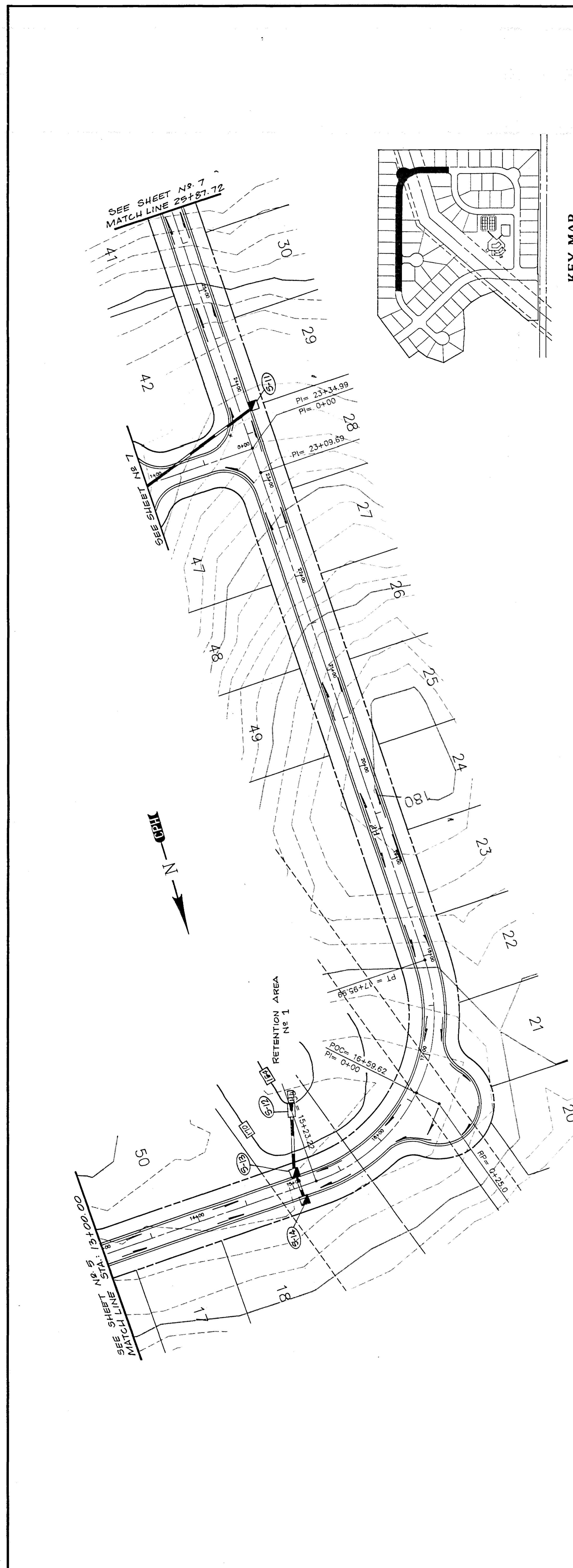


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POST OFFICE BOX 2808
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SANFORD, FLORIDA 32771
TEL 407 322-6841 TEL 407 831-5717

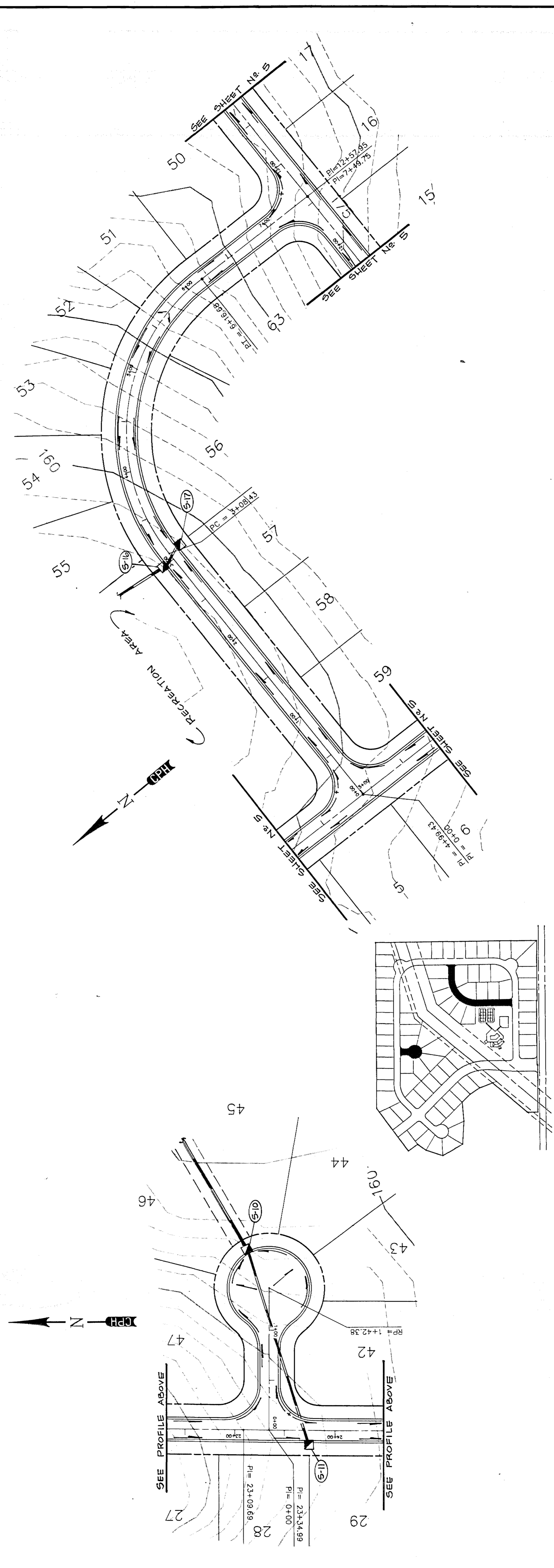
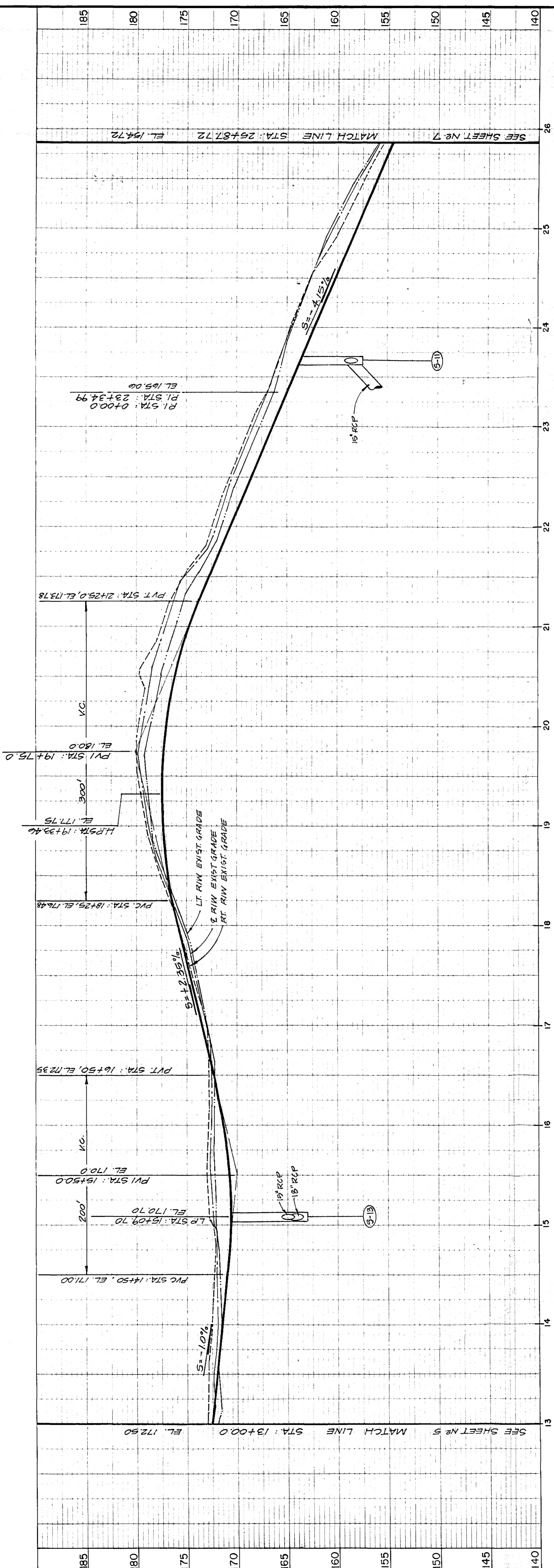
DATE	TO	FOR
		PROJECT CONTROL

ACTIVITY	NAME	DATE
DESIGNED BY:	JBM/JCB	8/92
DRAWN BY:	DEF	8/92
CHECKED BY:	JCB	8/92
APPROVED BY:	J.C.BRANCH	8/92
REGISTRATION NO.	34791	NO. DATE

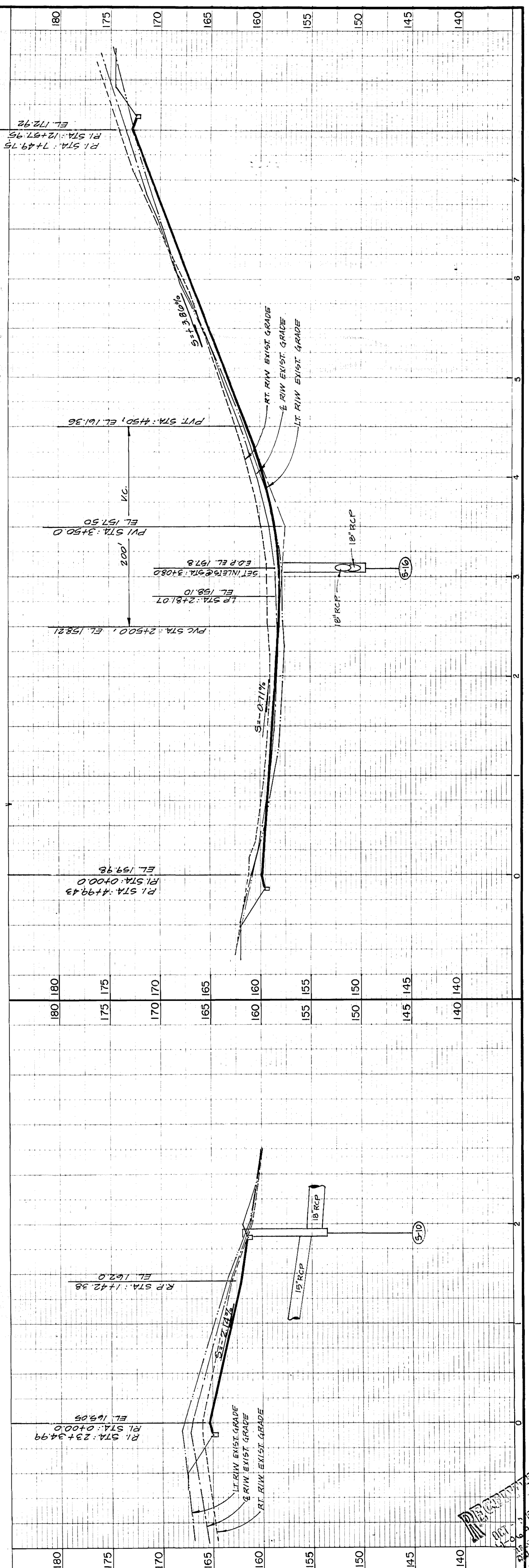
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GREATER PINES PHASE 1		DATE: AUG. 1992	5 OF 7
LAKE COUNTY, FLORIDA	FILE: GPBASE3	JOB NO. G6765.01	



KEY MAP
1"=50'



KEY MAP
1"=50'



Conklin Porter and Holmes ENGINEERS, INC.
 cph
 POST OFFICE BOX 2808
 550 W. TUSTON STREET
 SANFORD, FLORIDA 32771
 TEL 407 322-6841 TEL 407 831-5717

DATE	TO	FOR

PROJECT CONTROL

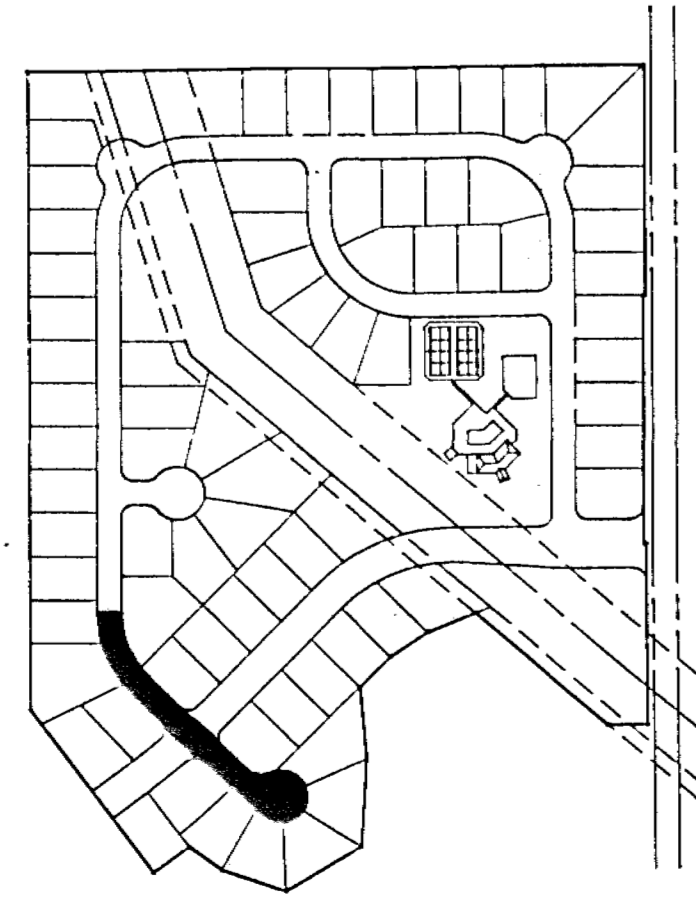
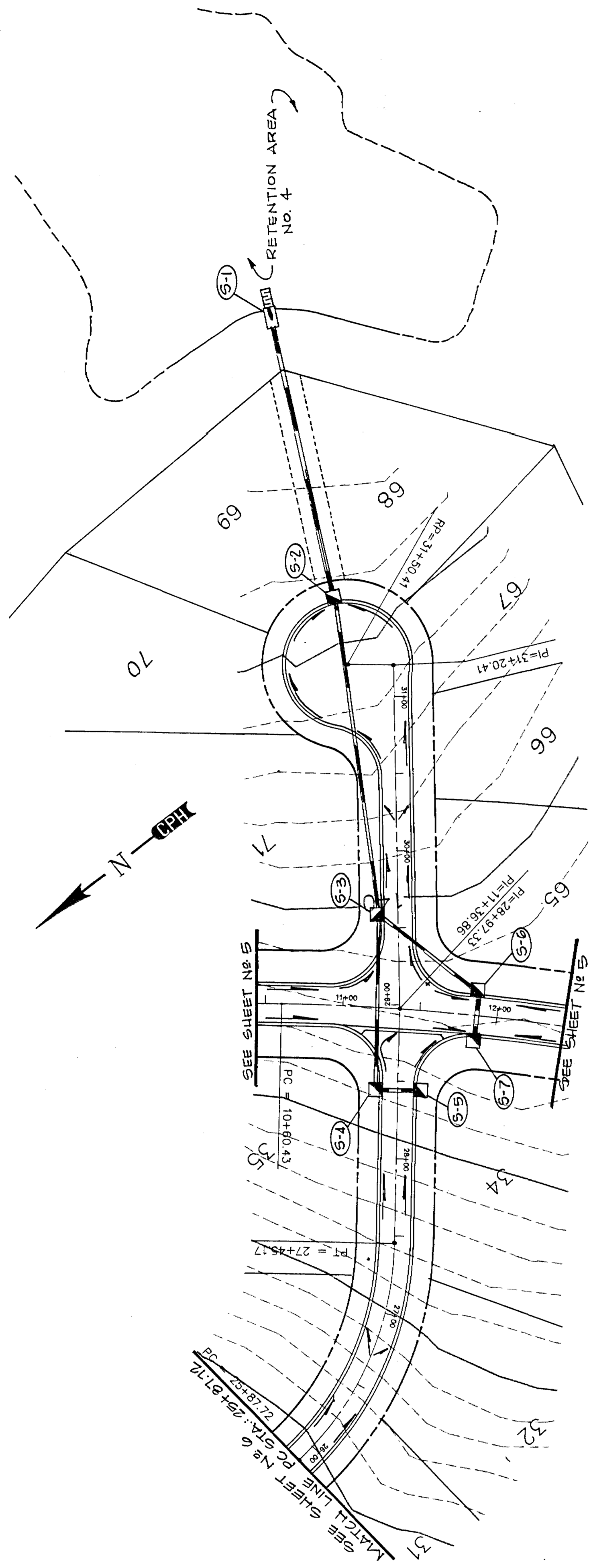
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DESIGNED BY:	JBM/JCB	8/92
DRAWN BY:	DEF	8/92
CHECKED BY:	JCB	8/92
APPROVED BY:	J.C.BRANCH	8/92
REGISTRATION NO.	34791	

PLAN AND PROFILES
GREATER PINES PHASE 1
 LAKE COUNTY, FLORIDA

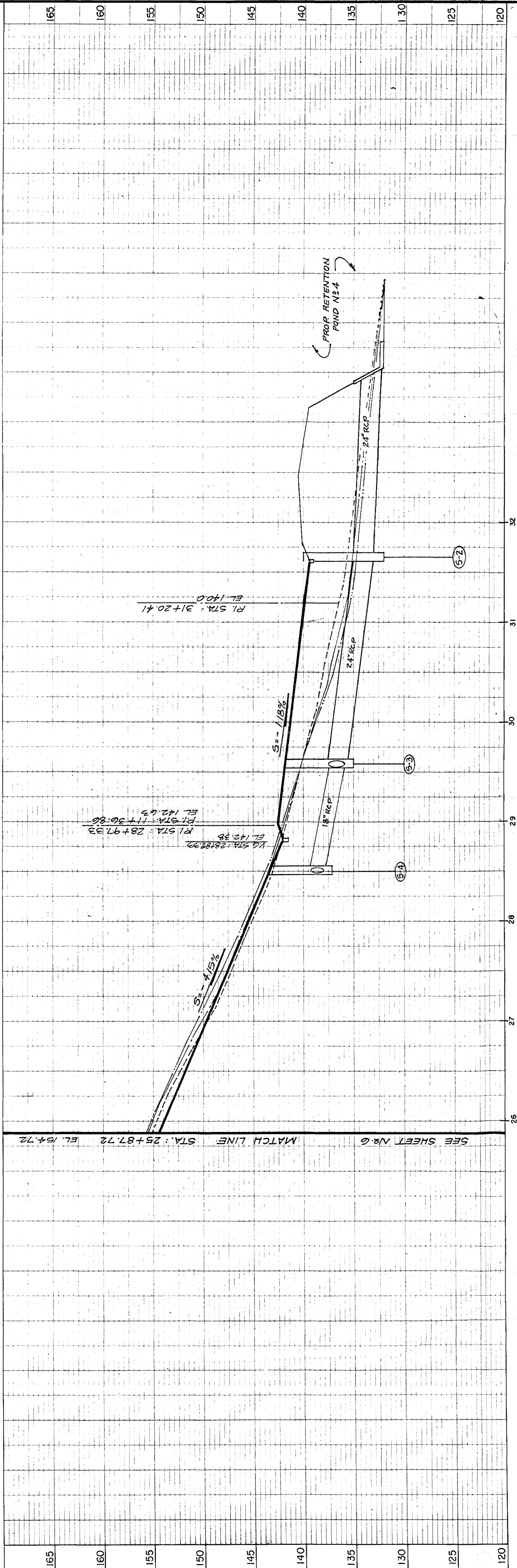
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SHEET NO. **6** OF **7**

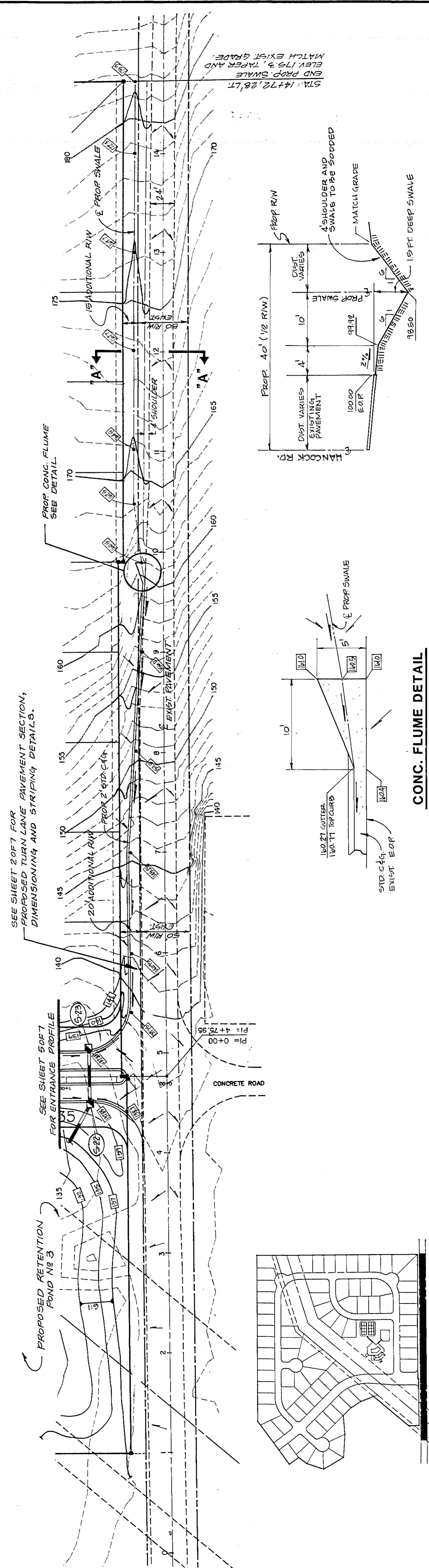
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KEY MAP
1"=400'

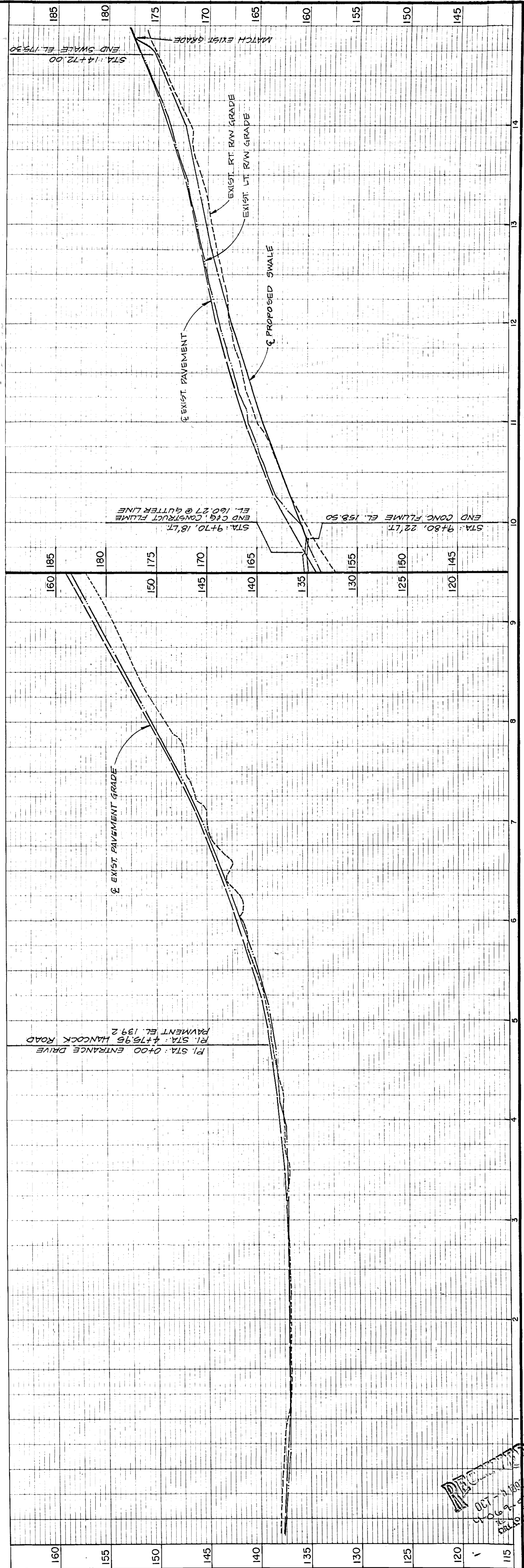


ROAD - Z -



CONC. FLUME DETAIL

TYP. SWALE SECTION 'A-A'



HANCOCK ROAD

KEY MAP
1"=400'

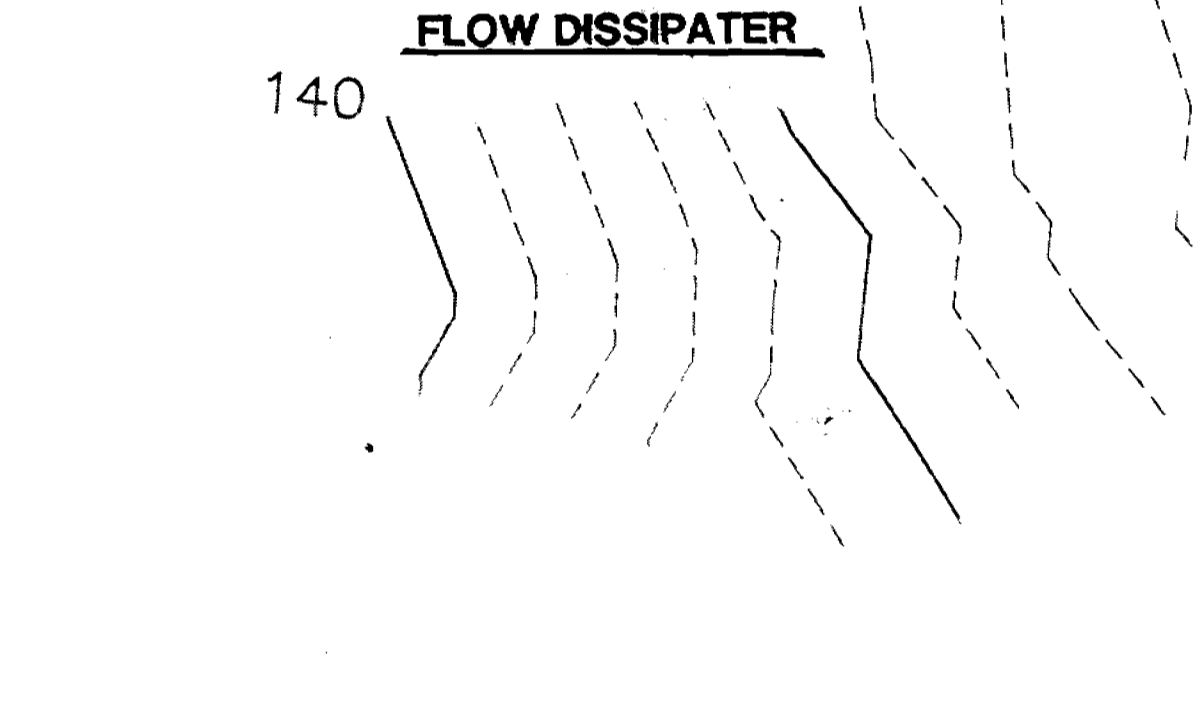
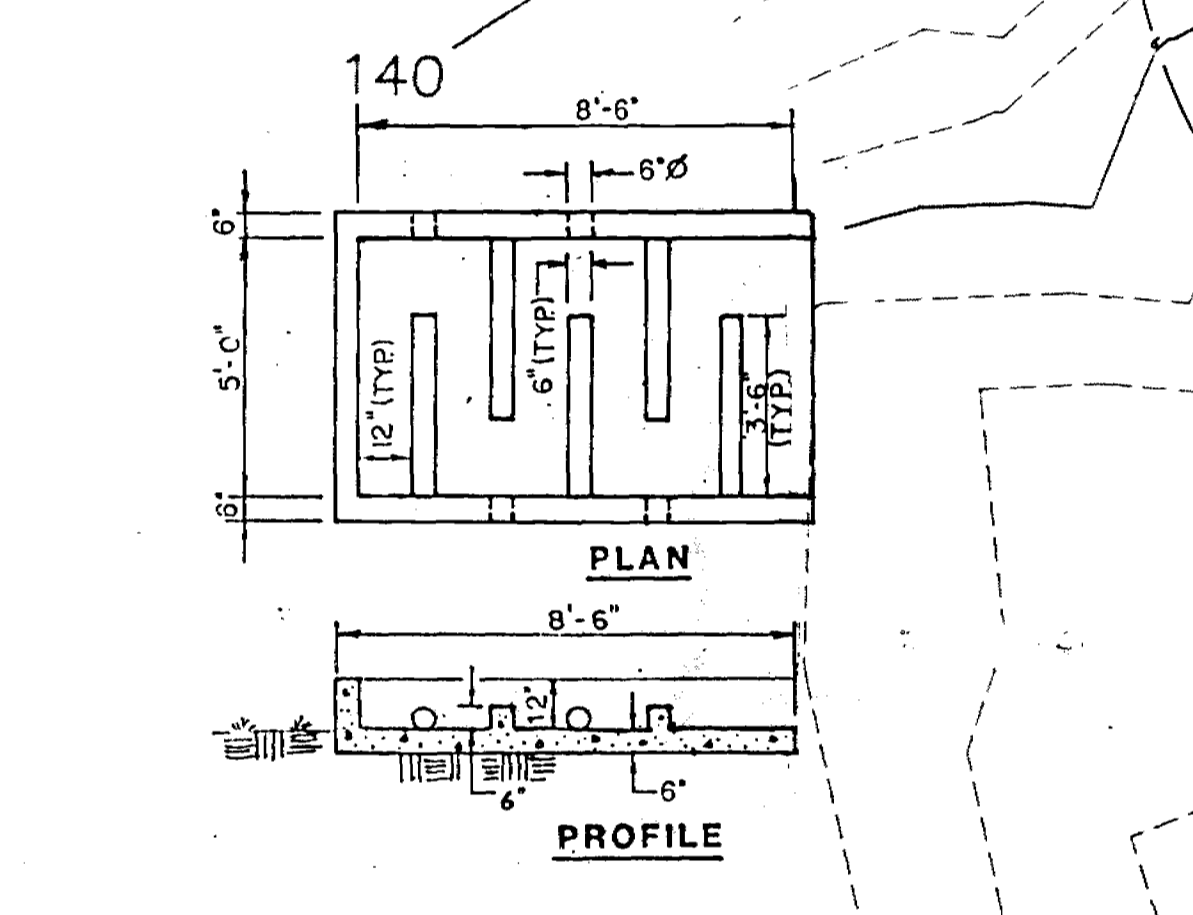
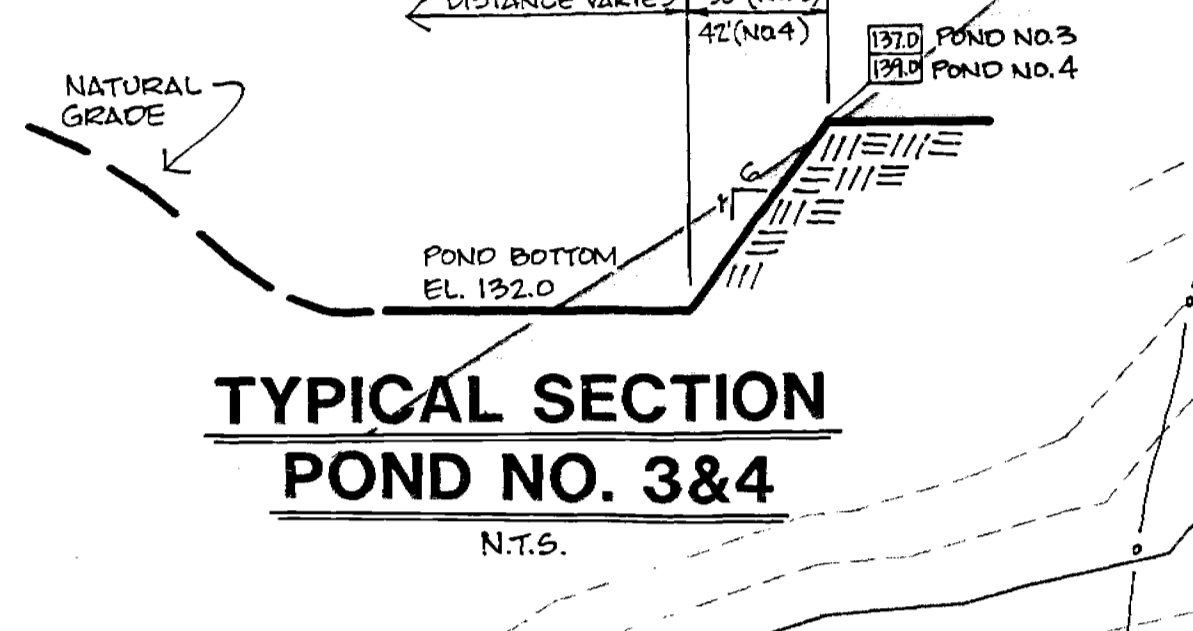
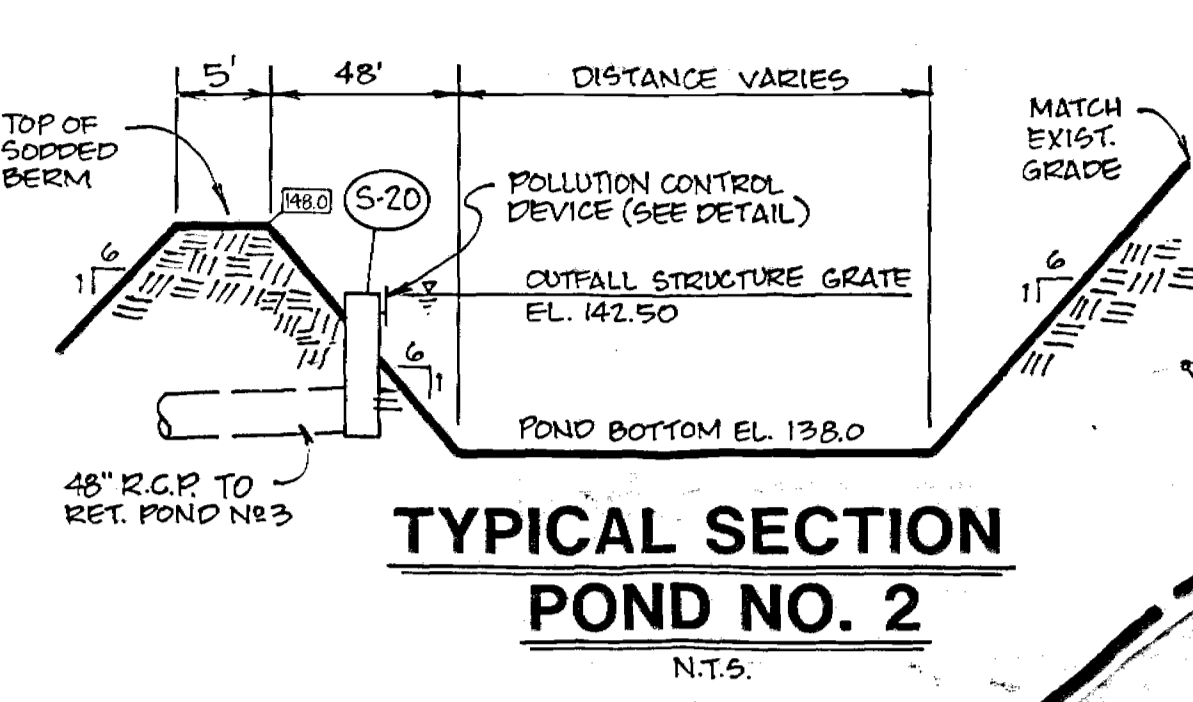
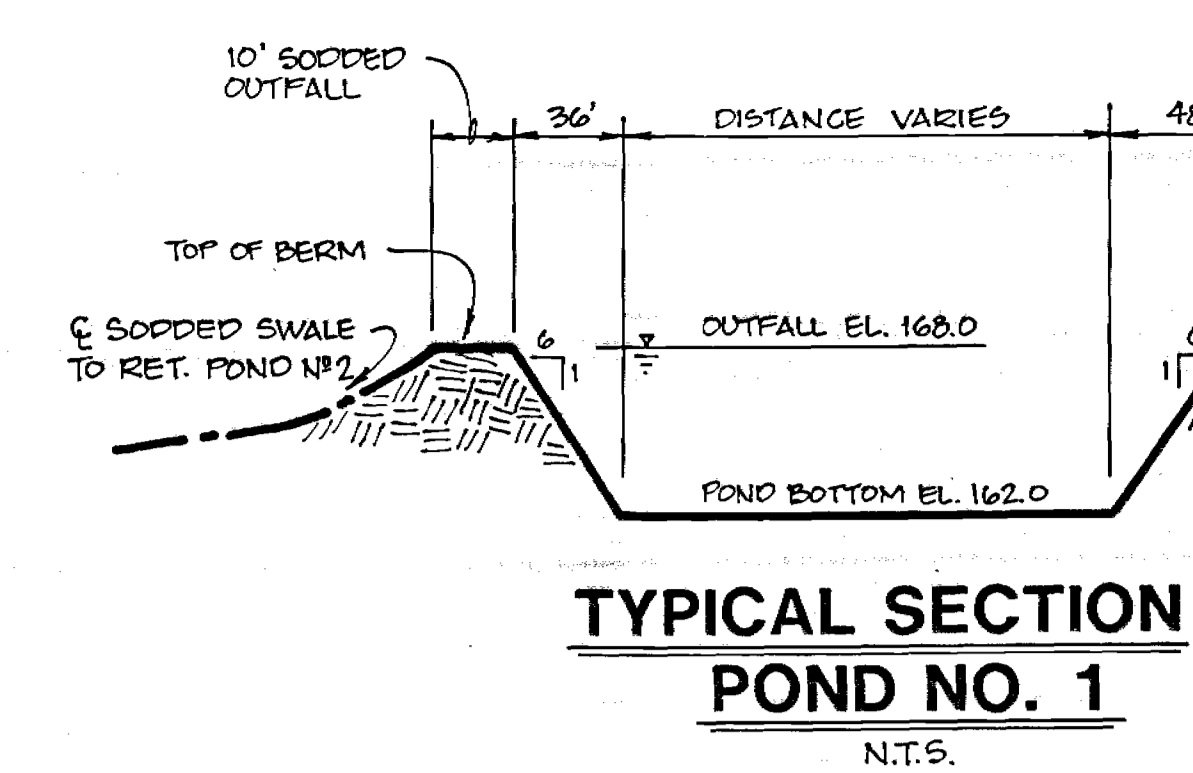
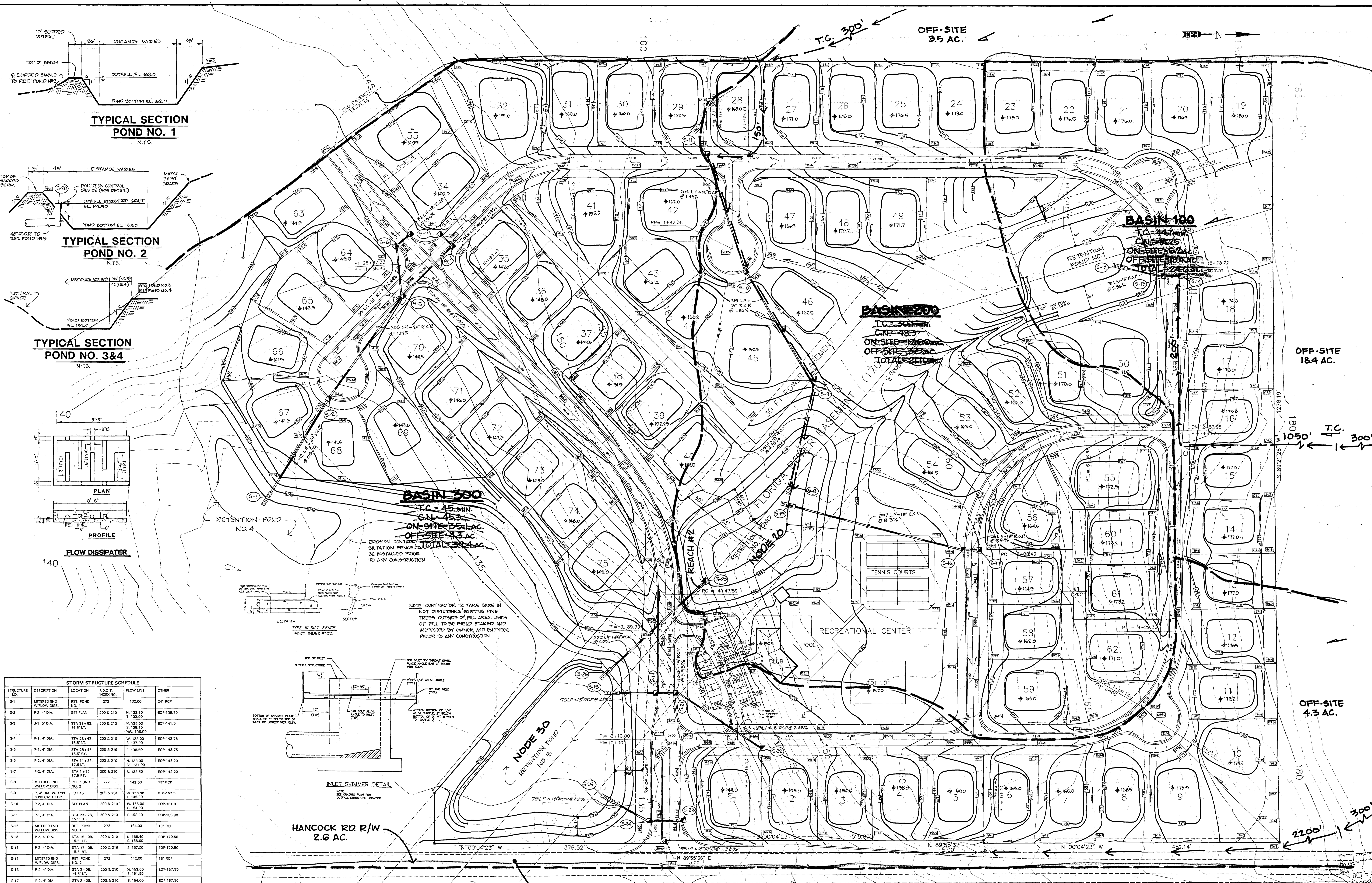
Conklin Porter and Holmes ENGINEERS, INC.
 POST OFFICE BOX 2888
 500 W. FULTON STREET
 SANFORD, FLORIDA 32771
 TEL. 407-322-5841 TEL. 407-831-5717

DATE	TO	FOR
		PROJECT CONTROL

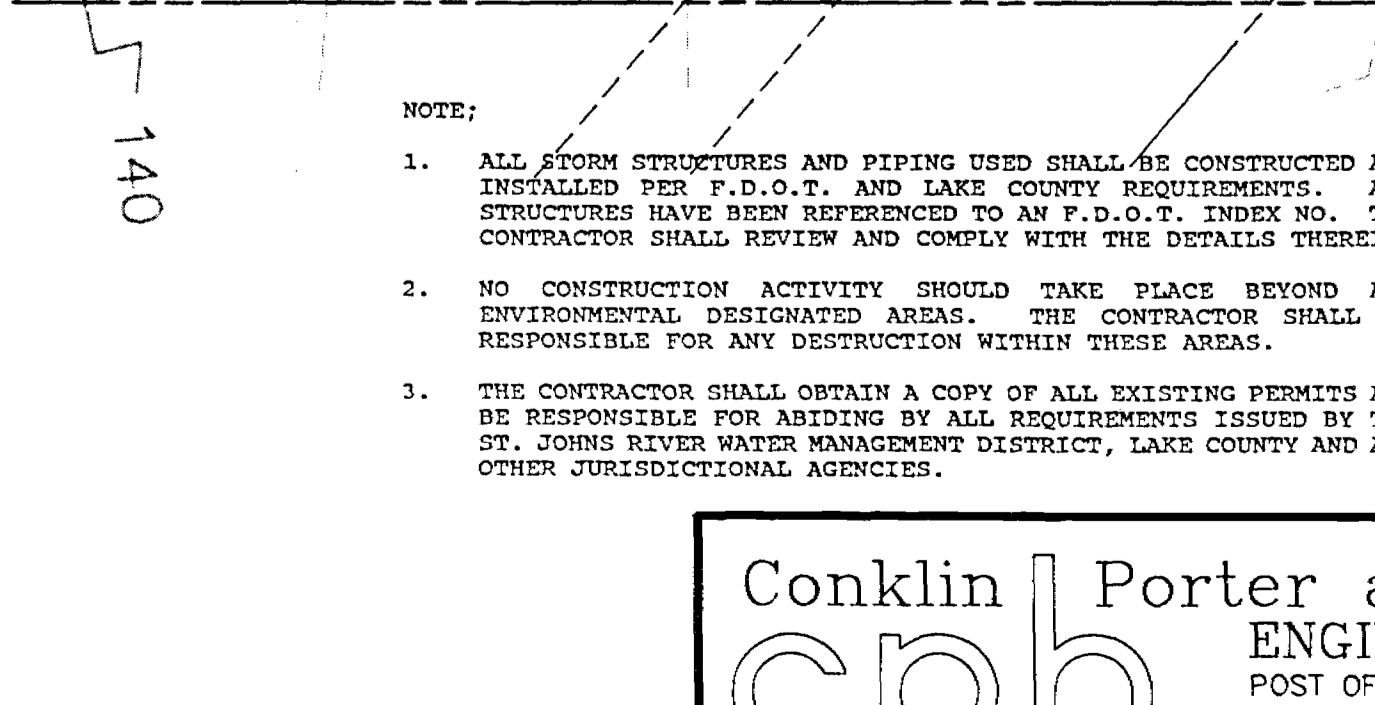
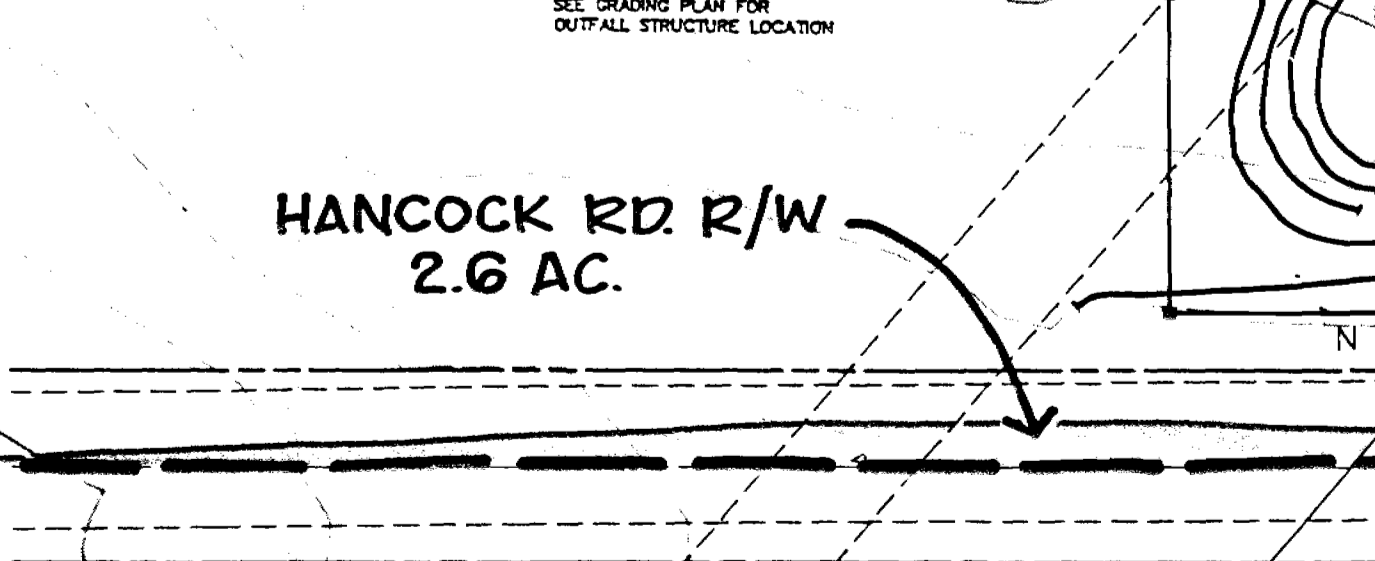
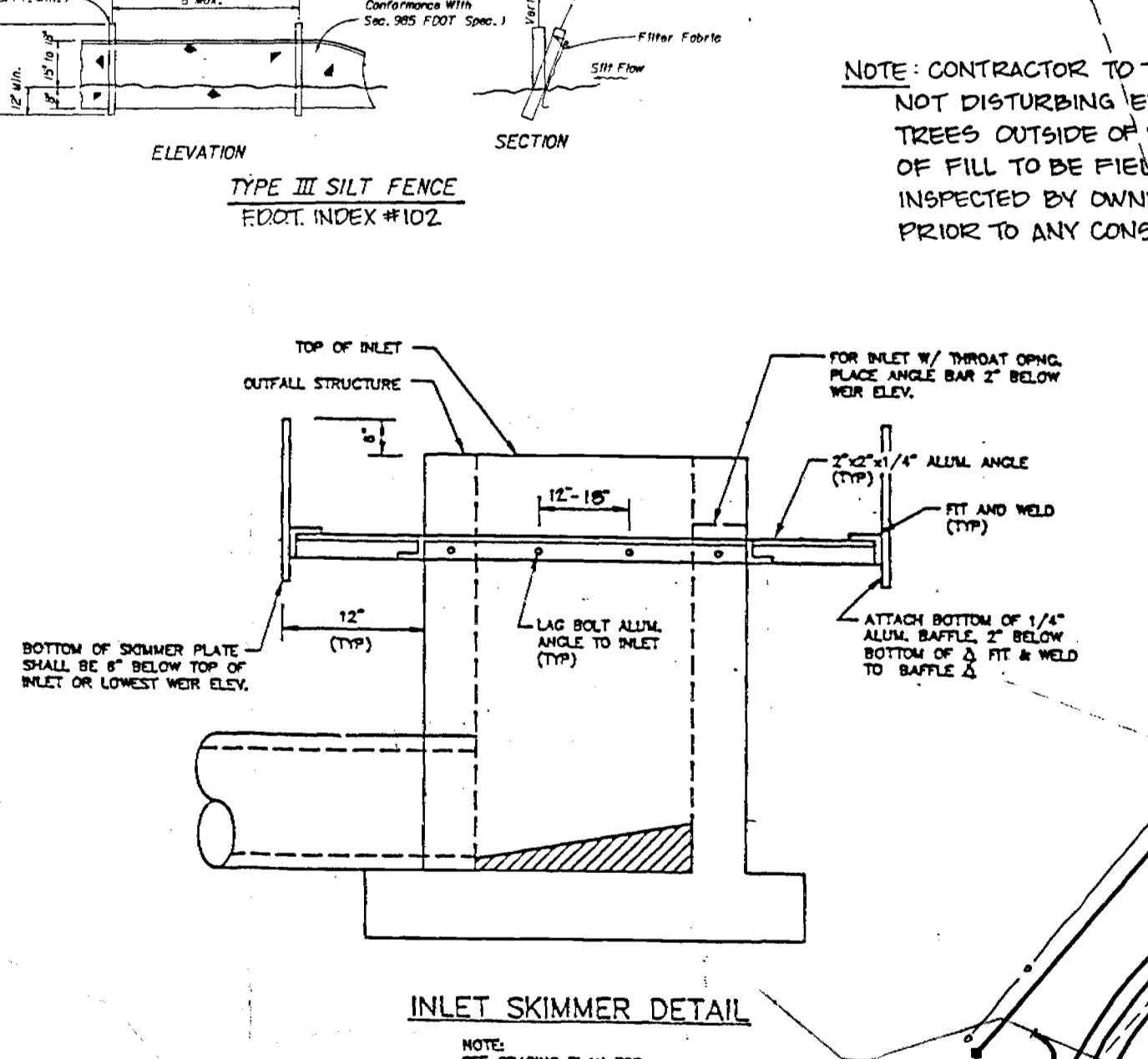
ACTIVITY	NAME	DATE
DESIGNED BY:	JBM/JCB	8/92
DRAWN BY:	DEF	8/92
CHECKED BY:	JCB	8/92
APPROVED BY:	J.C. BRANCH	8/92
REGISTRATION NO.	34791	

PLAN AND PROFILES		SCALE: 1"=50'	SHEET NO.
GREATER PINES PHASE 1		DATE: AUG. 1992	7 OF 7
LAKE COUNTY, FLORIDA	FILE: GPBASE3	JOB NO. G6765.01	

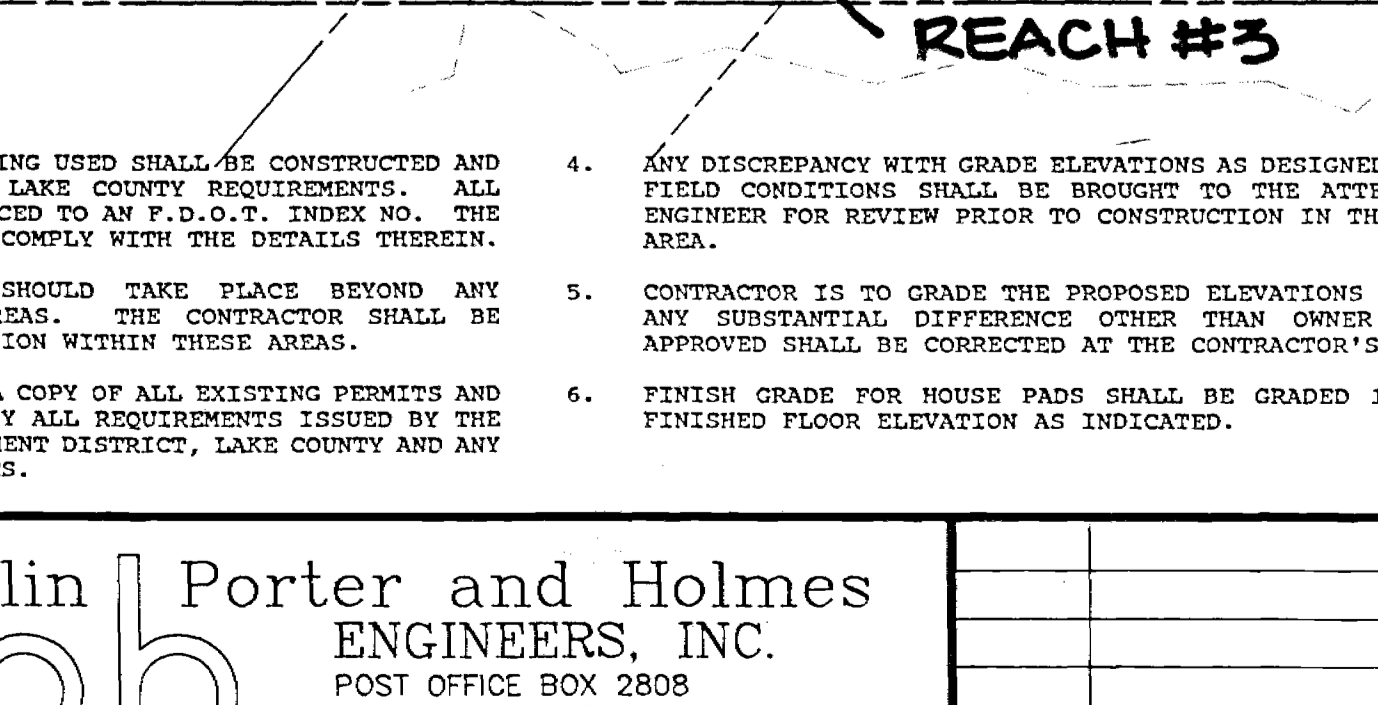
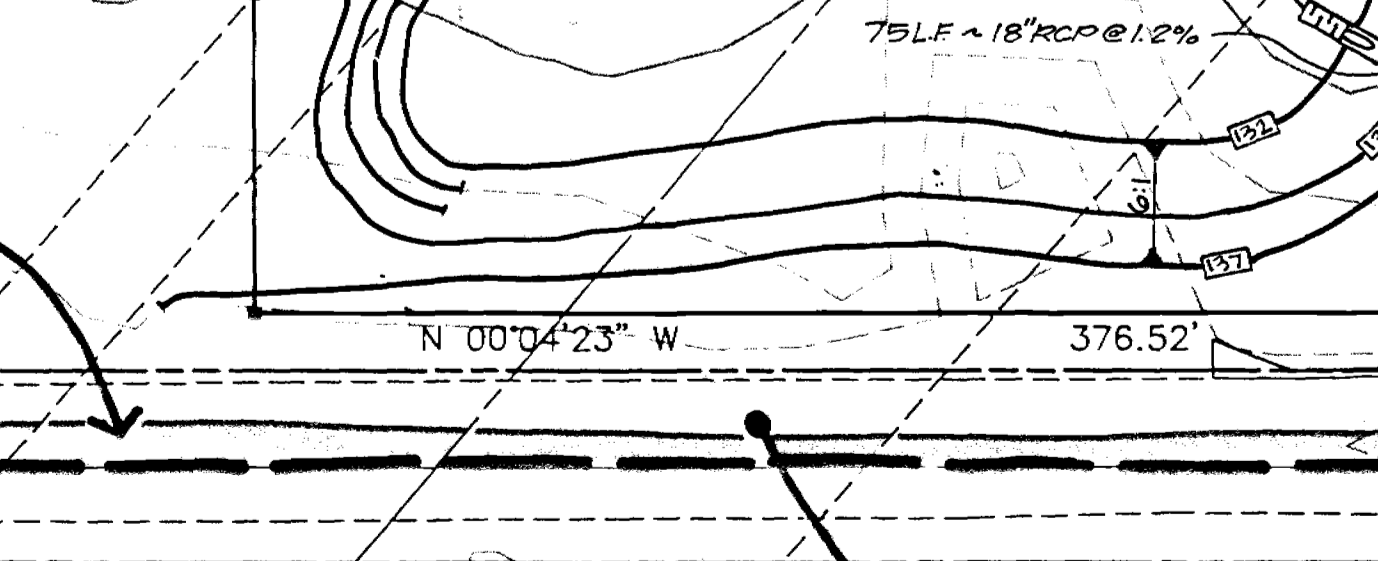
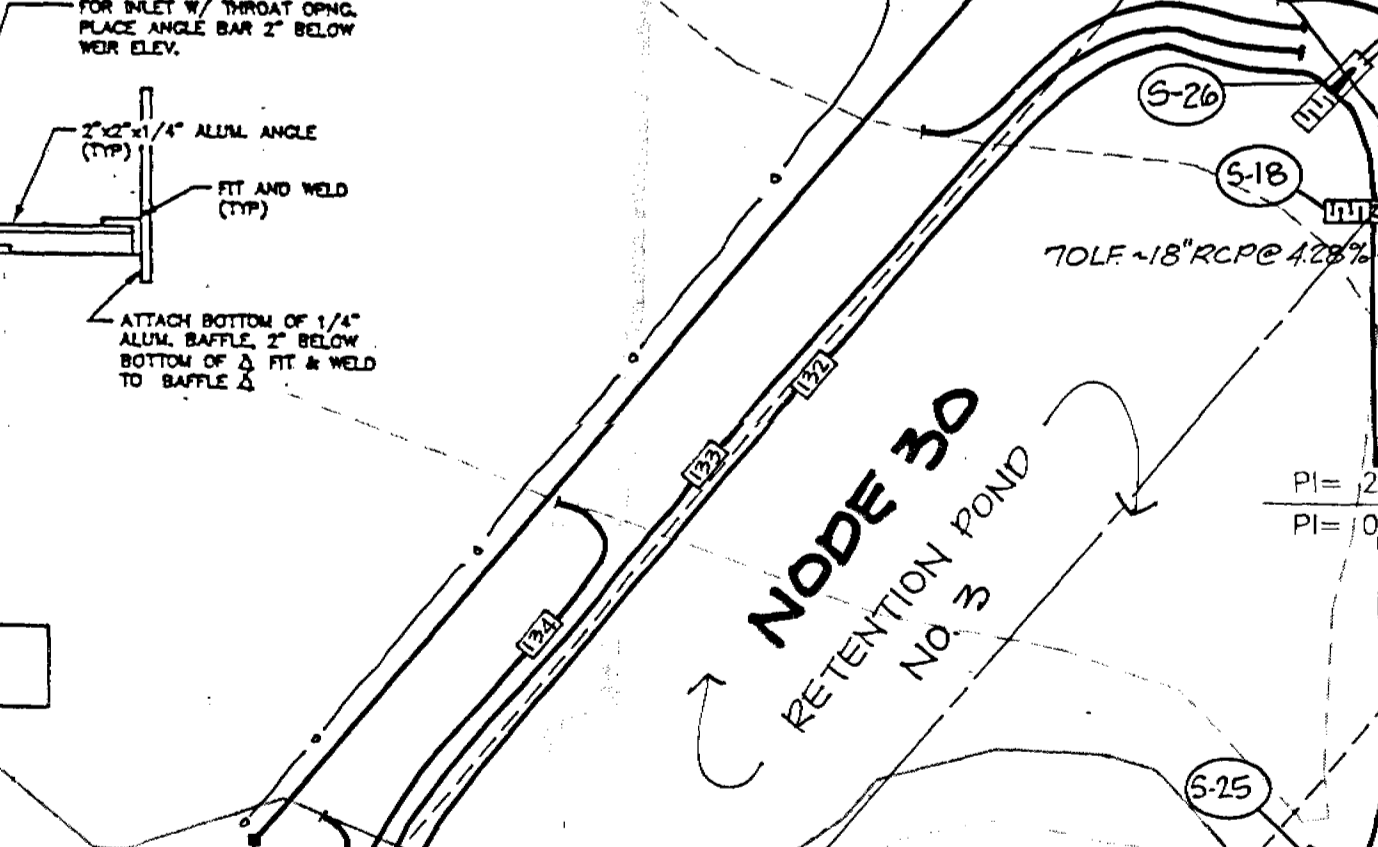
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STRUCTURE ID	DESCRIPTION	LOCATION	F.D.O.T. INDEX NO.	FLOW LINE	OTHER
S-1	MITERED END W/ FLOW DISS.	RET. POND NO. 4	272	132.00	24" RCP
S-2	P.2, 4' DIA.	SEE PLAN	200 & 210	N. 133.10 S. 133.00	EOP-139.50
S-3	P.1, 6' DIA.	STA 29+82, 14.5' RT.	200 & 210	N. 136.00 S. 137.00 NW. 138.00	EOP-141.60
S-4	P.1, 4' DIA.	STA 28+45, 15.0' LT.	200 & 210	N. 136.00 S. 137.00	EOP-143.75
S-5	P.1, 4' DIA.	STA 28+45, 15.0' RT.	200 & 210	E. 138.50	EOP-143.75
S-6	P.2, 4' DIA.	STA 11+48, 17.5' RT.	200 & 210	N. 138.00 SE. 137.50	EOP-142.20
S-7	P.2, 4' DIA.	STA 1+88, 17.5' RT.	200 & 210	S. 138.50	EOP-142.20
S-8	MITERED END W/ FLOW DISS.	RET. POND NO. 2	272	142.00	18" RCP
S-9	P.4' DIA. W/ TYPE B PRECAST TOP	107' AS	200 & 201	W. 140.00 E. 149.90	RAM-157.5
S-10	P.2, 4' DIA.	SEE PLAN	200 & 210	W. 155.00 E. 154.00	EOP-161.0
S-11	P.1, 4' DIA.	STA 23+79, 15.0' RT.	E. 158.00	EOP-163.80	
S-12	MITERED END W/ FLOW DISS.	RET. POND NO. 1	272	164.00	18" RCP
S-13	P.2, 4' DIA.	STA 15+09, 15.0' LT.	200 & 210	N. 166.40 S. 165.00	EOP-170.50
S-14	P.2, 4' DIA.	STA 15+09, 15.0' RT.	200 & 210	S. 167.00	EOP-170.50
S-15	MITERED END W/ FLOW DISS.	RET. POND NO. 2	272	142.00	18" RCP
S-16	P.2, 4' DIA.	STA 3+06, 14.5' LT.	200 & 210	N. 152.00 S. 151.50	EOP-157.80
S-17	P.2, 4' DIA.	STA 3+06, 14.5' RT.	200 & 210	S. 154.00	EOP-157.80
S-18	MITERED END W/ FLOW DISS.	RET. POND NO. 2	272	132.00	18" RCP
S-19	P.1, 6' DIA.	STA 3+14, 18.5' LT.	200 & 210	N. 136.00 NW. 135.20	EOP-141.20
S-20	TYPE III INLET W/ FLOW CONTROL	RET. POND NO. 2	272	SE. 134.20	STL METALLINE GRATE
S-21	P.2, 4' DIA.	STA 3+14, 18.5' RT.	200 & 210	N. 136.00 S. 135.00	EOP-141.20
S-22	P.1, 4' DIA.	STA 2+43, 15.5' LT.	200 & 210	SW. 141.00	EOP-145.14
S-23	P.1, 4' DIA.	STA 0+77, 20' RT.	200 & 210	S. 133.80	EOP-137.83
S-24	P.1, 4' DIA.	STA 0+77, 20' LT.	200 & 210	N. 133.00 S. 132.50	EOP-137.83
S-25	MITERED END W/ FLOW DISS.	RET. POND NO. 3	272	132.00	18" RCP
S-26	MITERED END W/ FLOW DISS.	RET. POND NO. 3	272	SE. 132.00	48" RCP



NOTE: CONTRACTOR TO TAKE CARE IN NOT DISTURBING EXISTING PINE TREES OUTSIDE OF FILL AREA LIMITS OF FILL TO BE FIELD STAKED AND INSPECTED BY OWNER AND ENGINEER PRIOR TO ANY CONSTRUCTION.



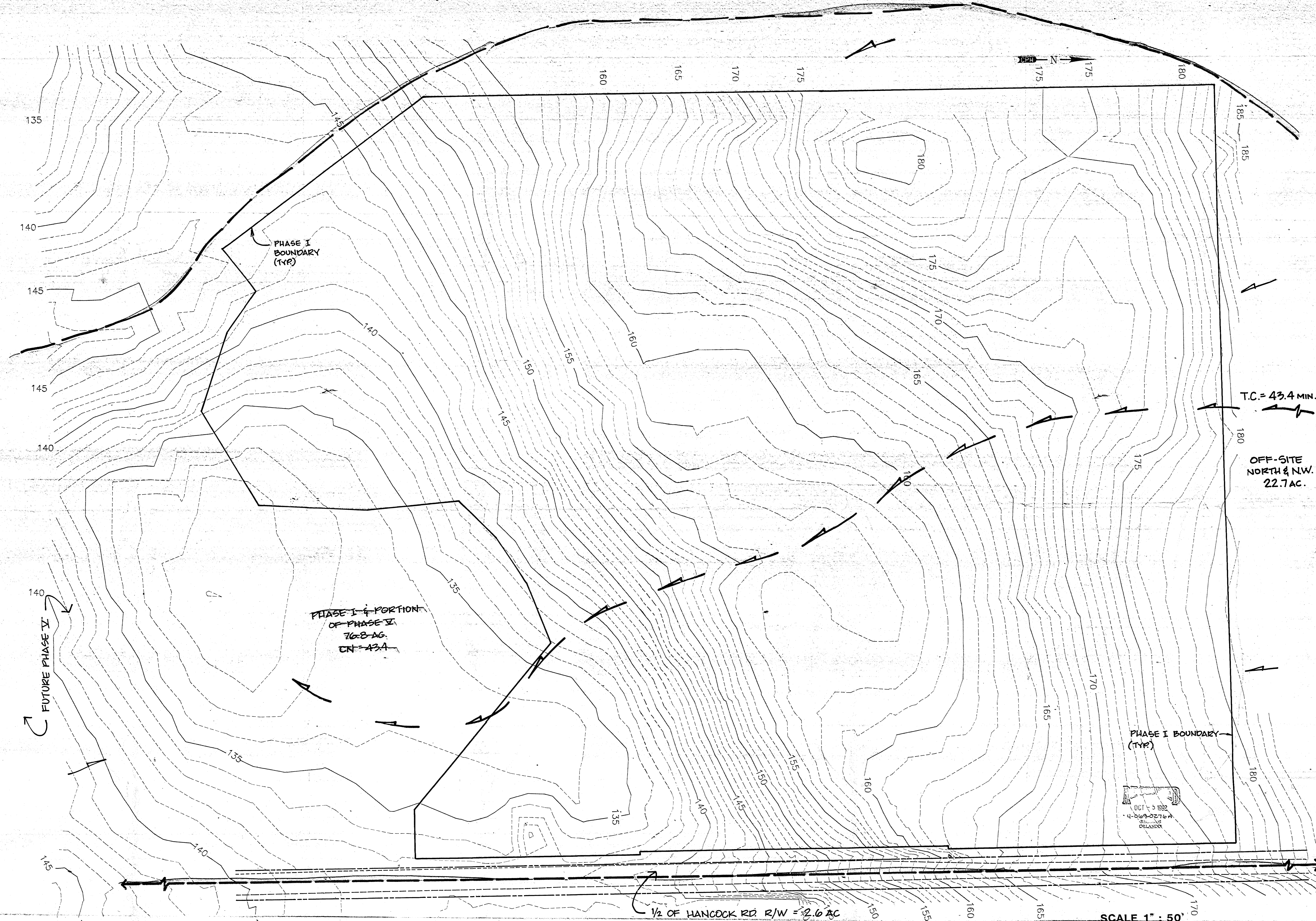
- ALL STORM STRUCTURES AND PIPING USED SHALL BE CONSTRUCTED AND INSTALLED PER F.D.O.T. AND LAKE COUNTY REQUIREMENTS. ALL STRUCTURES HAVE BEEN REFERENCED TO AN F.D.O.T. DRAWING NO. THE CONTRACTOR SHALL REVIEW AND COMPLY WITH THE DETAILS THEREIN.
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- THE CONTRACTOR SHALL OBTAIN A COPY OF ALL EXISTING PERMITS AND BE RESPONSIBLE FOR ANY VIOLATIONS BY ALL REQUIREMENTS ISSUED BY THE ST. JOHNS SILVER WATER MANAGEMENT DISTRICT, LAKE COUNTY AND ANY OTHER JURISDICTIONAL AGENCIES.
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- CONTRACTOR IS TO GRADE THE PROPOSED ELEVATIONS AS INDICATED. ANY SUBSTANTIAL DIFFERENCE OTHER THAN ORDER OR ENGINEER APPROVED SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- FINISH GRADE FOR HOUSE PADS SHALL BE GRADED 12" BELOW THE FINISHED FLOOR ELEVATION AS INDICATED.

ACTIVITY	NAME	DATE
DESIGNED BY:	JBM/JCB	8/92
DRAWN BY:	DEF	8/92
CHECKED BY:	JCB	8/92
APPROVED BY:	J.C.BRANCH	8/92
REGISTRATION NO.	34791	NO. DATE

POST DEVELOPMENT DRAINAGE MAP
GREATER PINES PHASE 1
SCALE: 1"=50'
DATE: AUG. 1992
JOB NO. G6765.01
FILE: GPBASE3

Conklin Porter and Holmes ENGINEERS, INC.
POST OFFICE BOX 2808
500 W. FULTON STREET
SANFORD, FLORIDA 32771
TEL. 407 322-6841 TEL. 407 831-5717

DATE	TO	FOR



FUTURE PHASE II

PHASE I BOUNDARY (TYP)

PHASE I & PORTION OF PHASE II
76.8 AC.
CN=43.4

PHASE I BOUNDARY (TYP)

T.C. = 43.4 MIN.

OFF-SITE NORTH & N.W.
22.7 AC.

1/2 OF HANCOCK RD R/W = 2.6 AC

NOTE: SEE DRAINAGE CALC'S.
FOR OFF-SITE AREAS.

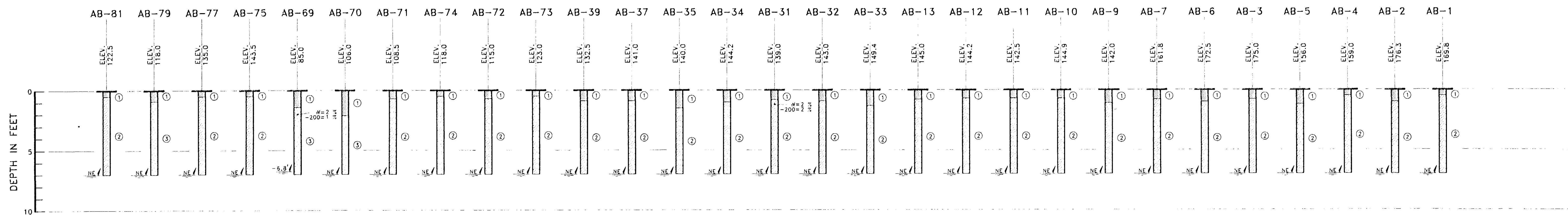
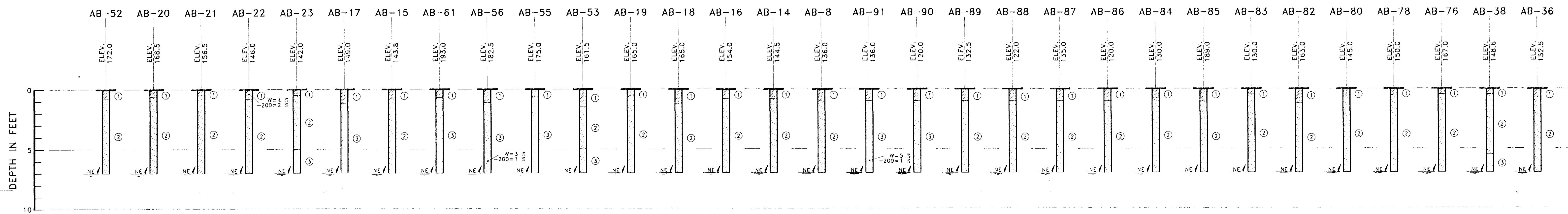
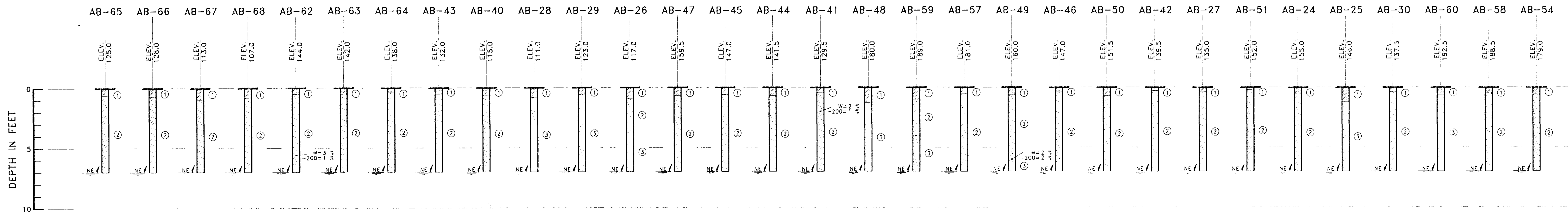
SCALE 1" = 50'

CPH JOB NO. G6765.01

GREATER PINES PHASE 1 PREDEVELOPMENT DRAINAGE MAP

007 02 1202

Handwritten signature and date
10/19/92




SOIL PROFILES
VERT. SCALE : 1" = 4'

LEGEND

- ① GRAY BROWN FINE SAND (A-3)
- ② ORANGISH-BROWN TO DARK ORANGISH-BROWN FINE SAND (A-3)
- ③ LIGHT GRAYISH-BROWN TO LIGHT ORANGISH-BROWN FINE SAND (A-3)
- (A-3) AASHTO SOIL CLASSIFICATION GROUP SYMBOL
- w NATURAL MOISTURE CONTENT IN PERCENT
- 200 PERCENT OF FINES PASSING THE NO. 200 SIEVE
- ✓ DEPTH TO GROUNDWATER LEVEL : MEASURED 12 - 89
- NE/ GROUNDWATER LEVEL NOT ENCOUNTERED WITHIN DEPTH OF BORING

SUBSURFACE SOIL INVESTIGATION

GREATER PINES
LAKE COUNTY, FLORIDA

 **Michael D. Sims & Associates, Inc.**
Professional Engineers in the State of Florida
Professional Geologists in the State of Florida

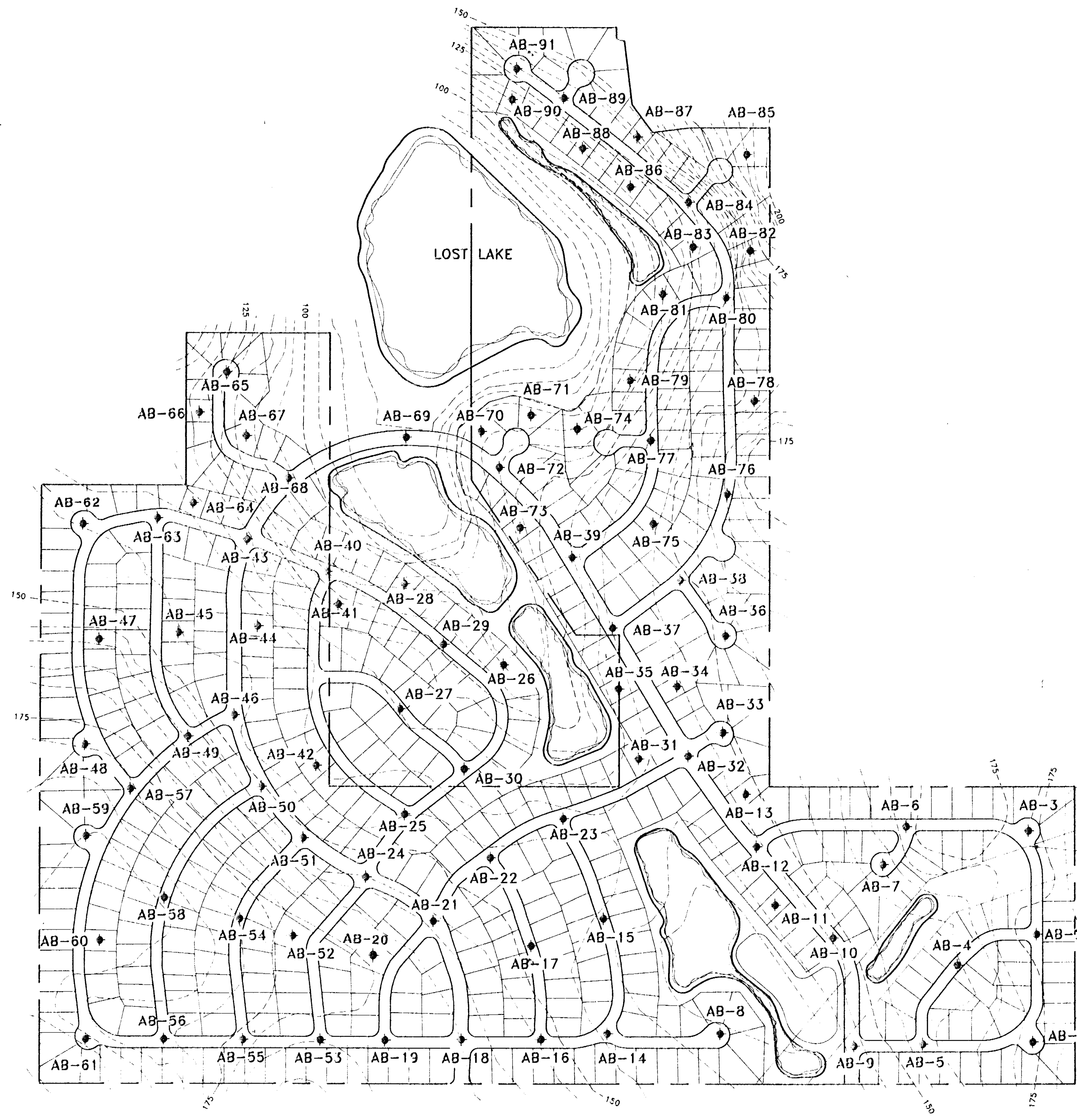
DRAWN : GFH	APPROVED : MDS	SCALE : 1" = 4'
DATE : 7-24-92	SHEET 2 OF 2	JOB NO. 33-053.12

1055-055-12.DWG

RECEIVED

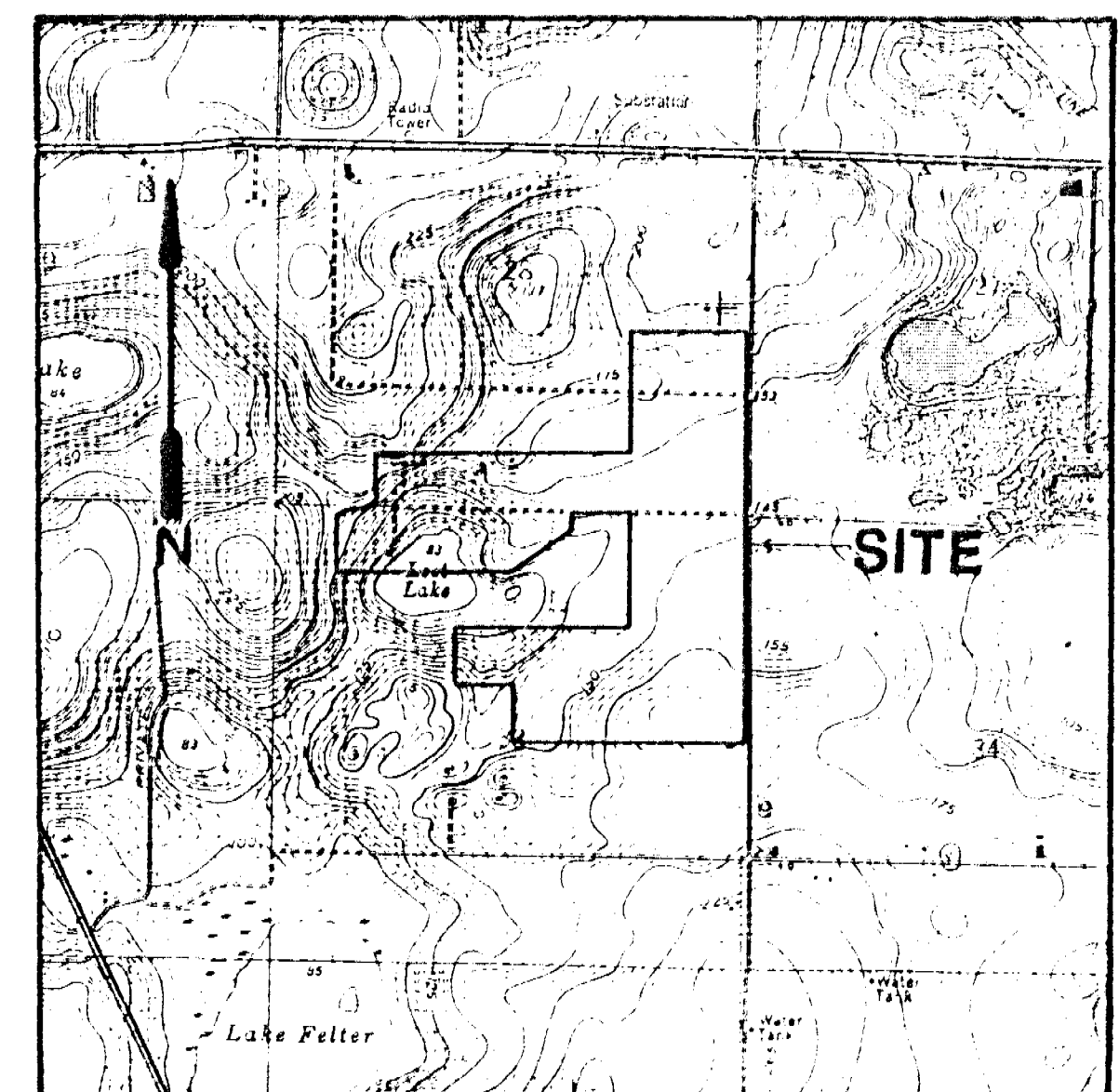
AUG 12 1992

GONKLIN, PORTER & HOLMES
ENGRS. INC.
GAINESVILLE, FLA



LOCATION PLAN

SCALE: 1" = 300'

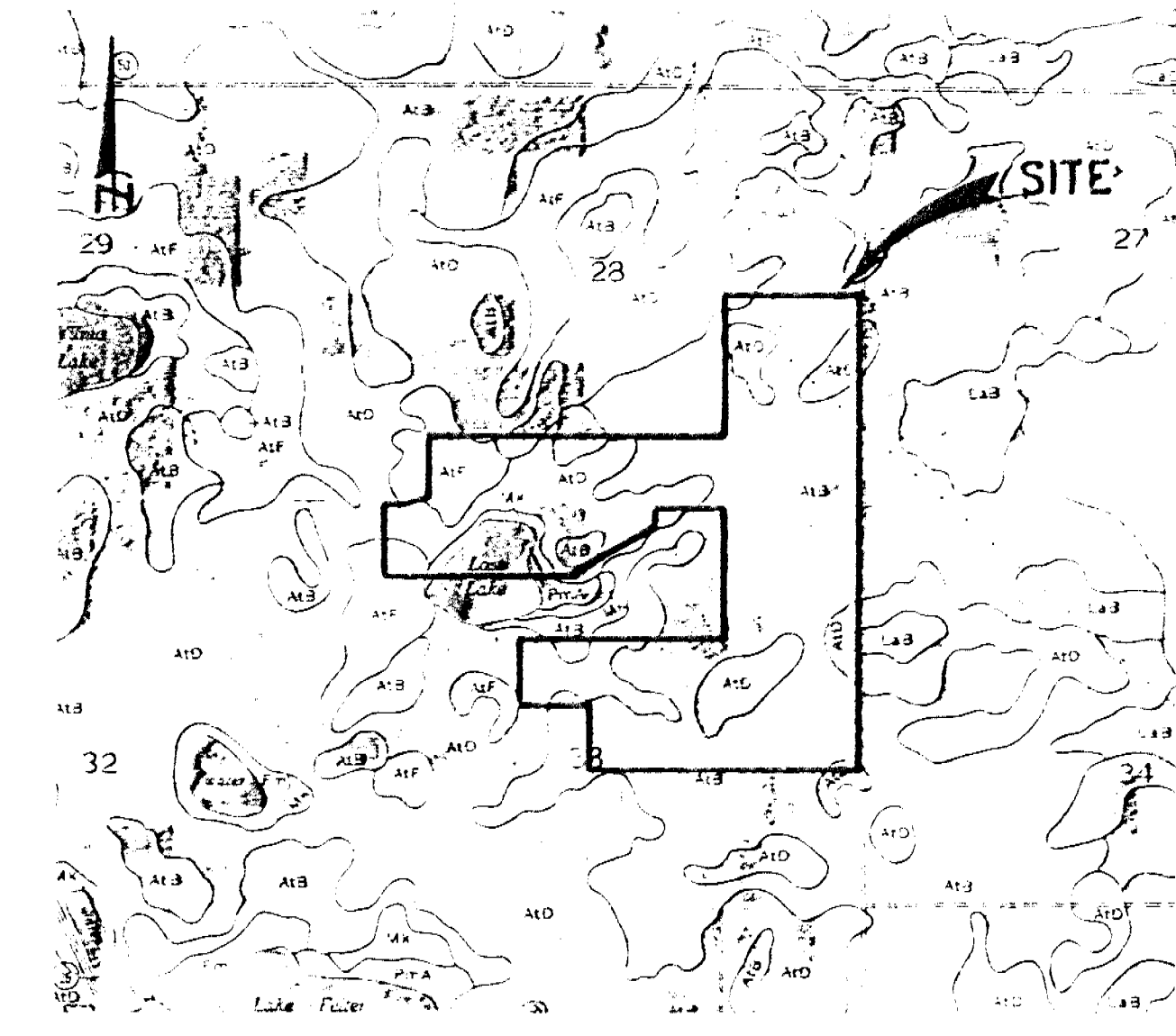


VICINITY MAP

CLERMONT EAST, FLORIDA QUADRANGLE MAP
DATED 1982, PHOTOREVISED 1983
SEC. 23 & 33
T22S
R22E

SOIL LEGEND


- A1B ASTATULA SAND, DARK SURFACE, 0 TO 5 PERCENT SLOPES
- A1D ASTATULA SAND, DARK SURFACE, 5 TO 12 PERCENT SLOPES
- A1F ASTATULA SAND, DARK SURFACE, 12 TO 40 PERCENT SLOPES
- UaB LAKE SAND, 0 TO 5 PERCENT SLOPES
- MK MYAKKA SAND
- PmA PLACID AND MYAKKA SANDS, 0 TO 5 PERCENT SLOPES

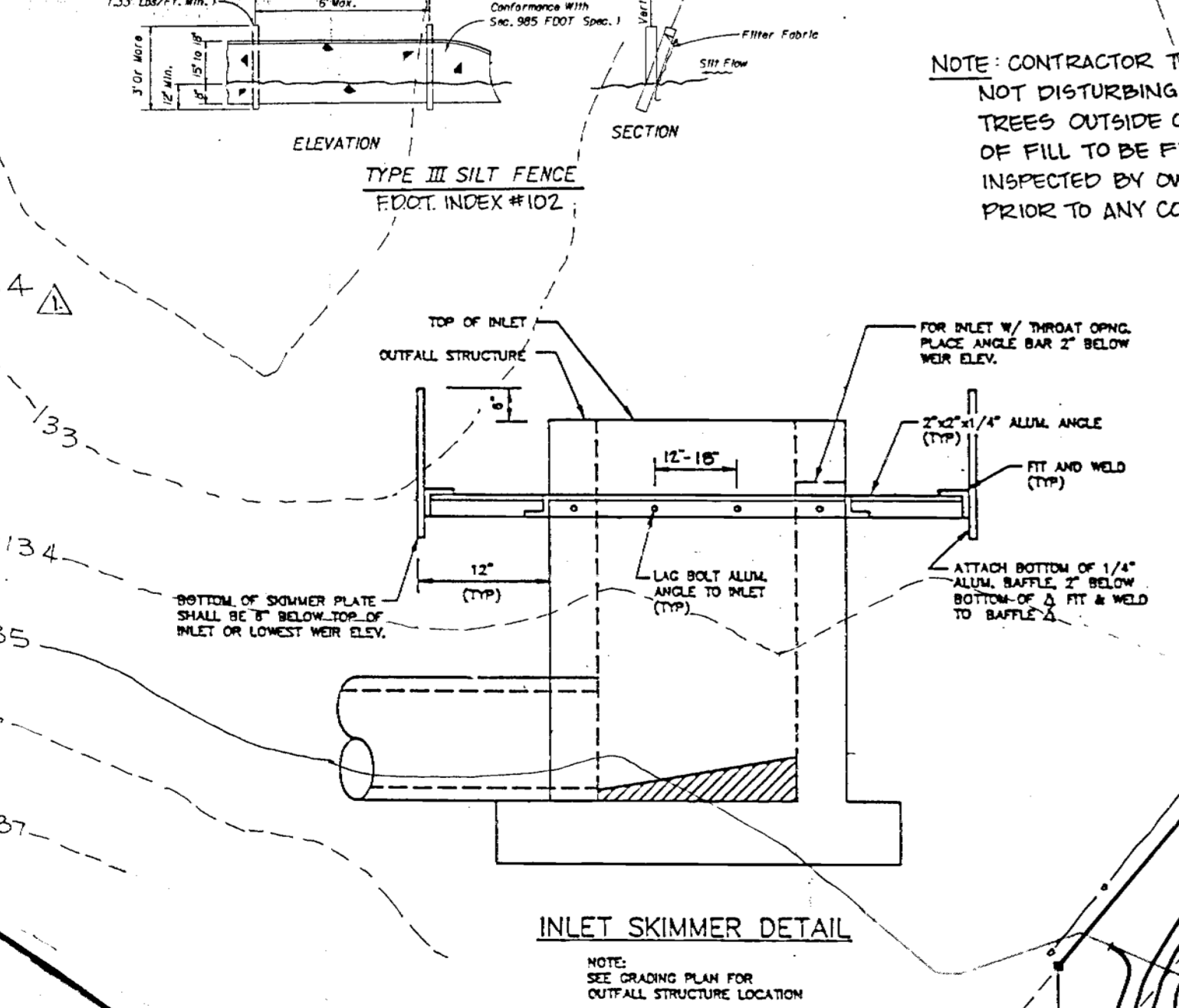
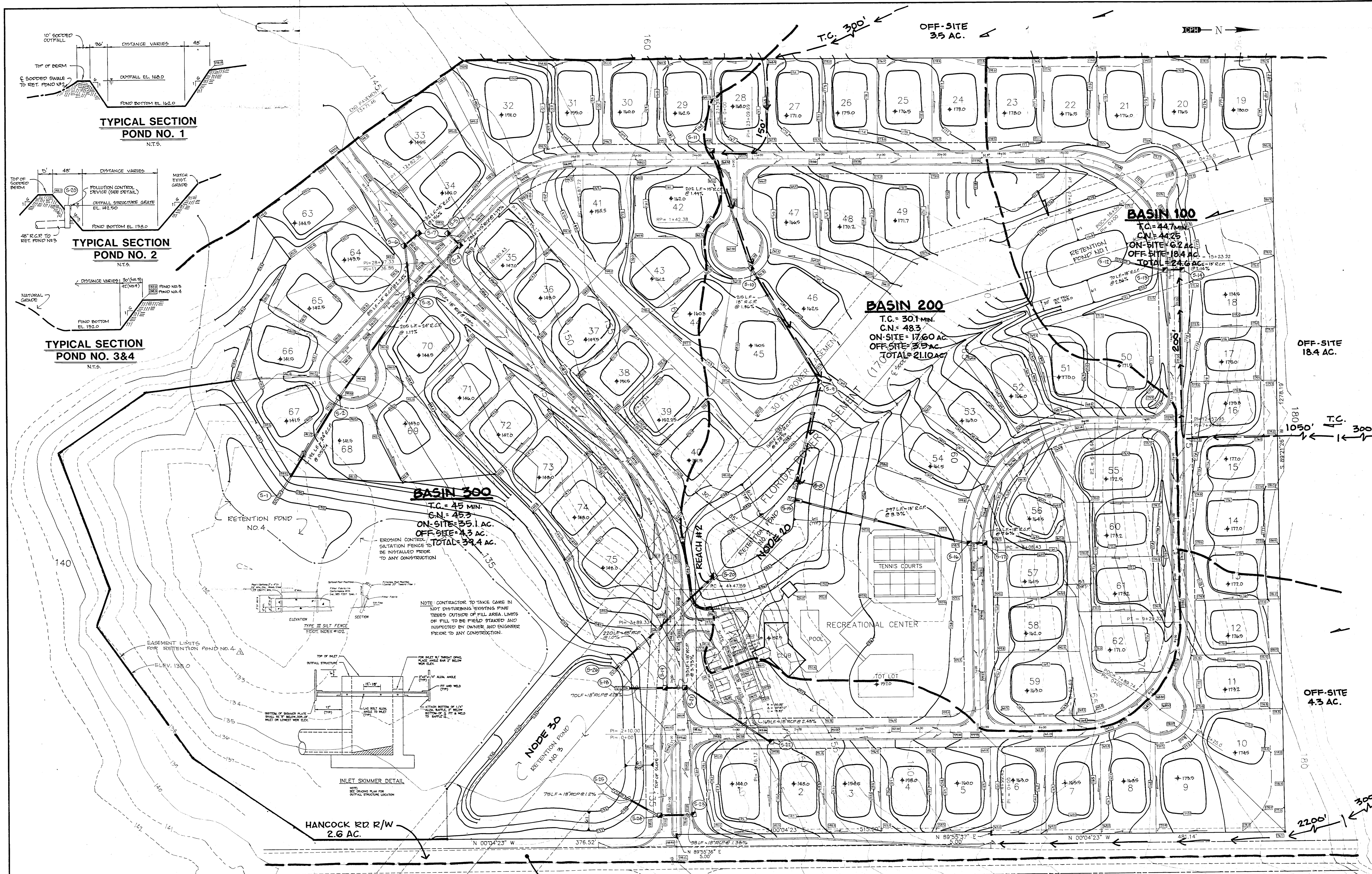
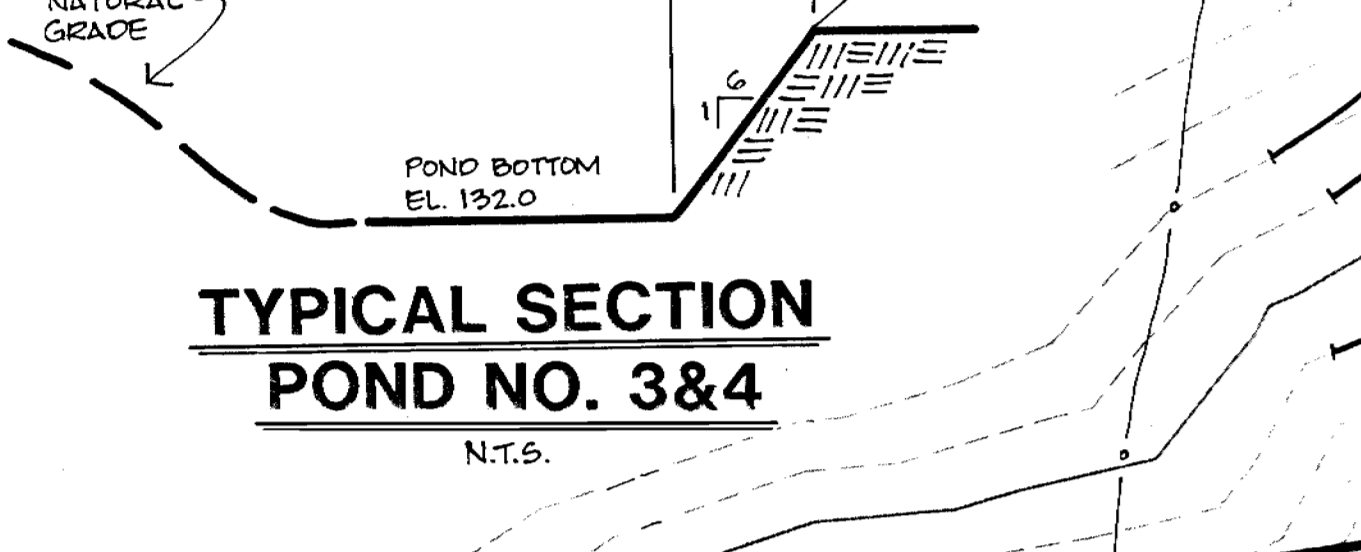
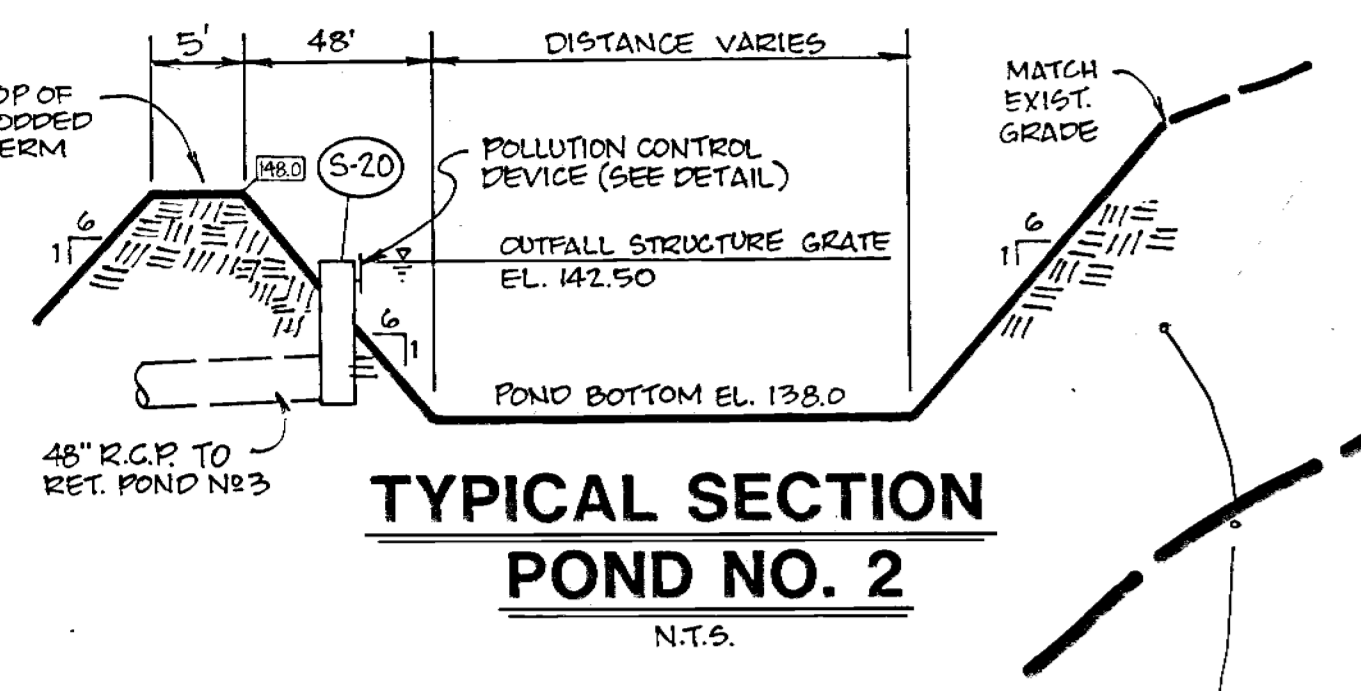
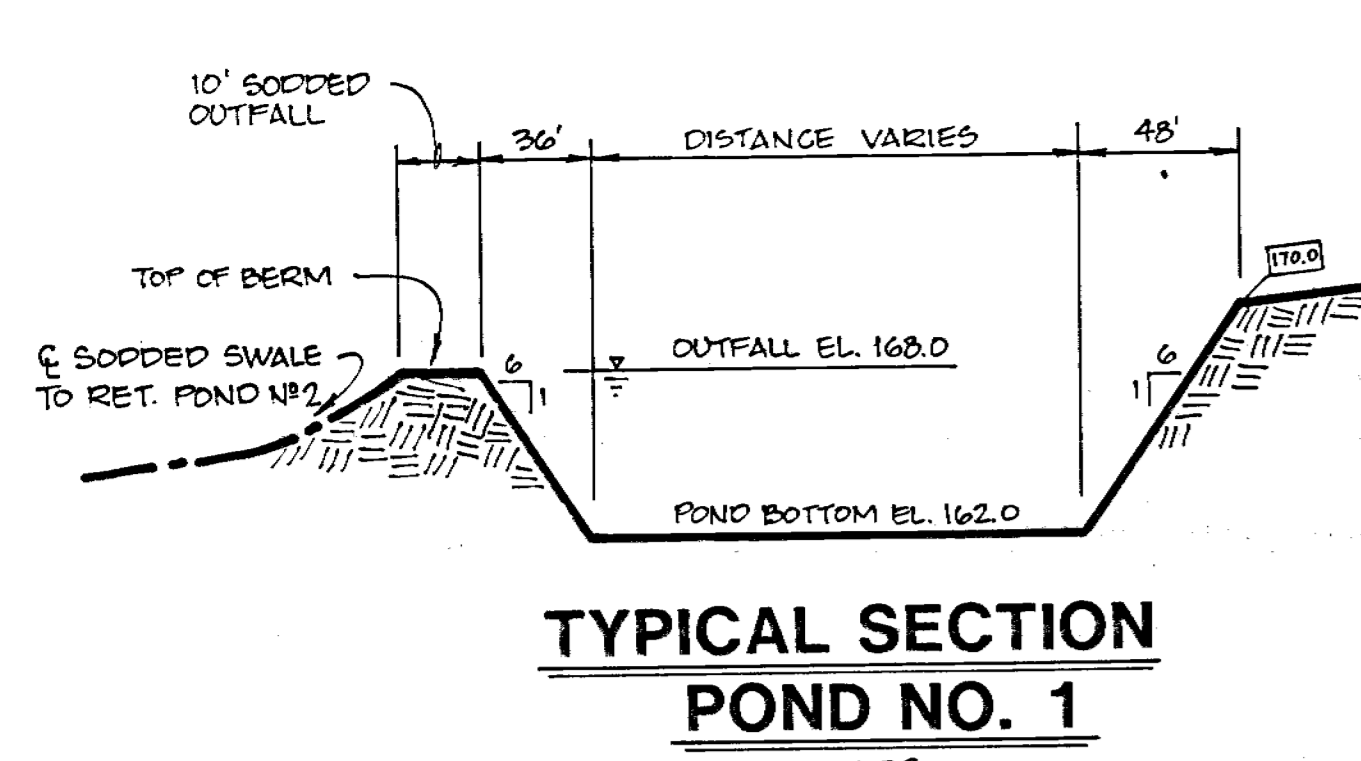


U.S.D.A. SOILS MAP

LEGEND

- ◆ LOCATION OF AUGER BORING
- CONTOUR OF EXISTING ELEVATION IN FEET AS PER DATA PROVIDED BY GLATTING, LOPEZ, KERCHER AND ANGLIN, PROJECT NO. 2899.01, DATED 10-11-83

SUBSURFACE SOIL INVESTIGATION		
GREATER PINES		
LAKE COUNTY, FLORIDA		
 Michael D. Sims & Associates, Inc. <small>Professional Engineers in the State of Florida, Certified Geotechnical Engineers, and Licensed Professional Meteorologists</small>		
DRAWN: GFH	APPROVED: MDS	SCALE: 1" = 300'
DATE: 7-24-92	SHEET 1 OF 2	JOB NO. 82-335.12



HANCOCK RD R/W
2.6 AC.

- NOTES:
1. ALL FORM STRUCTURES AND PIPING USED SHALL BE CONSTRUCTED AND INSTALLED PER F.D.O.C. AND LAKE COUNTY REQUIREMENTS. ALL CONSTRUCTION SHALL BE REFERENCED TO AN F.D.O.C. INDEX NO. THE CONTRACTOR SHALL REVIEW AND COMPLY WITH THE DETAILS THEREIN.
 2. NO CONSTRUCTION ACTIVITY SHOULD TAKE PLACE BEYOND ANY ENVIRONMENTAL DESIGNATED AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DESTRUCTION WITHIN THESE AREAS.
 3. THE CONTRACTOR SHALL OBTAIN A COPY OF ALL EXISTING PERMITS AND BE RESPONSIBLE FOR MAINTAINING BY ALL REQUIREMENTS ISSUED BY THE ST. JOHNS RIVERS WATER MANAGEMENT DISTRICT, LAKE COUNTY AND ANY OTHER JURISDICTIONAL AGENCIES.
 4. ANY DISCREPANCY WITH GRADE ELEVATIONS AS DESIGNED AND EXISTING FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION IN THAT PARTICULAR AREA.
 5. CONTRACTOR IS TO GRADE THE PROPOSED ELEVATIONS AS INDICATED. ANY SUBSTANTIAL DIFFERENCE OTHER THAN OWNER OR ENGINEER APPROVED SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
 6. FINISH GRADE FOR HOUSE PADS SHALL BE GRADED 12" BELOW THE FINISHED FLOOR ELEVATION AS INDICATED.

LEGEND

- 170 EXISTING CONTOUR
- 170 PROPOSED CONTOUR
- PROPOSED SPOT ELEV.
- PROPOSED MITERED END
- PROP. STORM DRAINAGE
- PROP. STORM SYSTEM W/ INLET
- PROP. FIN. FLOOR ELEV.

DATE: 8/92
DRAWN BY: JCB
CHECKED BY: JCB
APPROVED BY: J.C. BRANCH
REGISTRATION NO.: 34791

Conklin Porter and Holmes ENGINEERS, INC.
POST OFFICE BOX 2808
500 W. FULTON STREET
SANFORD, FLORIDA 32771
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ACTIVITY	NAME	DATE
DESIGNED BY:	JBM/JCB	8/92
DRAWN BY:	DEF	8/92
CHECKED BY:	JCB	8/92
APPROVED BY:	J.C. BRANCH	8/92
REGISTRATION NO.:	34791	

POST DEVELOPMENT DRAINAGE MAP
GREATER PINES PHASE 1

SCALE: 1"=50'
DATE: AUG. 1992
JOB NO. G6765.01
FILE: GPBASE3

SHEET NO. 1 of 1



U.S. HWY. 50

HANCOCK ROAD

ABANDONED ORANGE GROVE

PINE TREES FARM (PLANTED)

PINE TREES FARM (PLANTED)

ABANDONED ORANGE GROVE

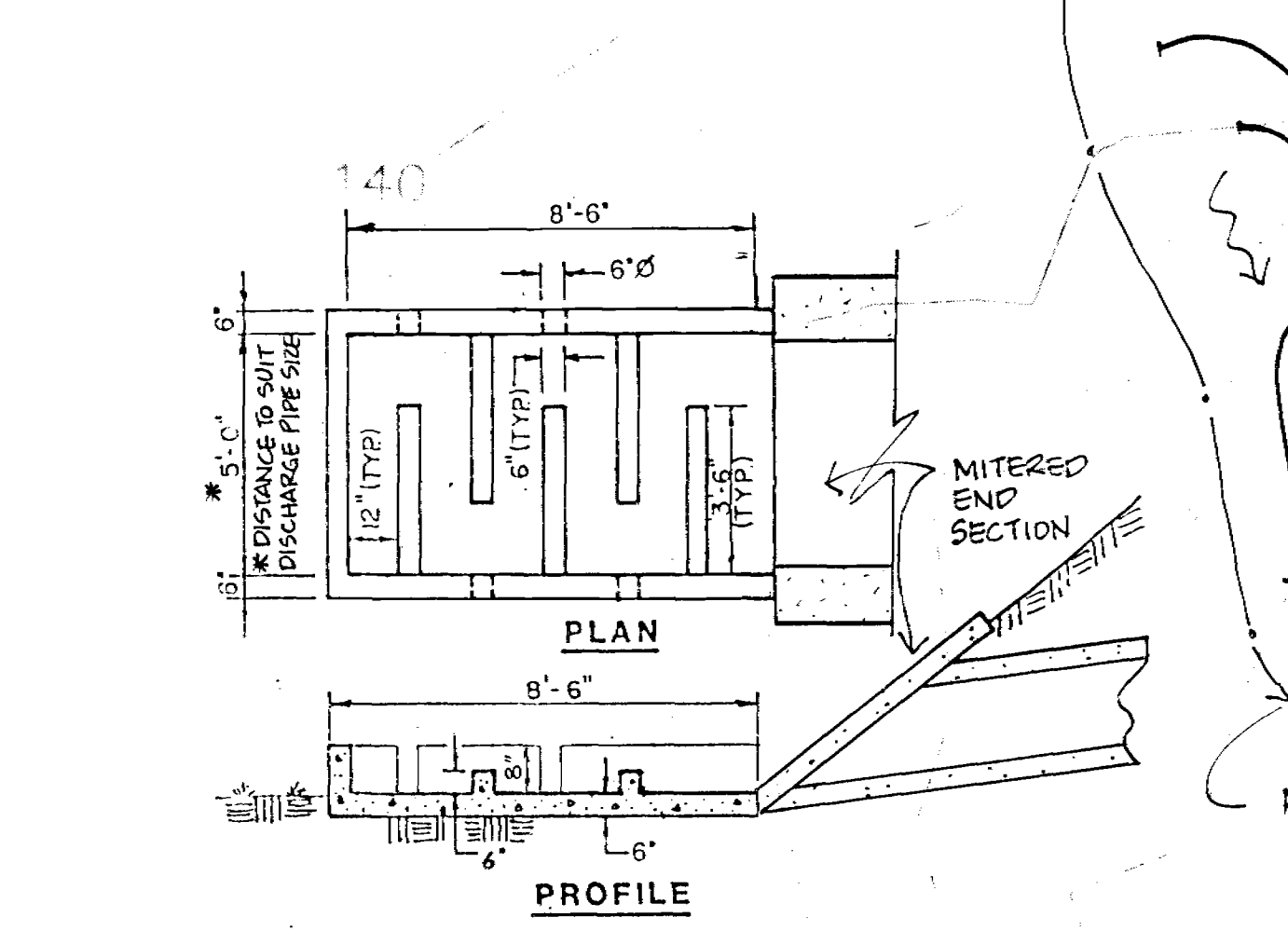
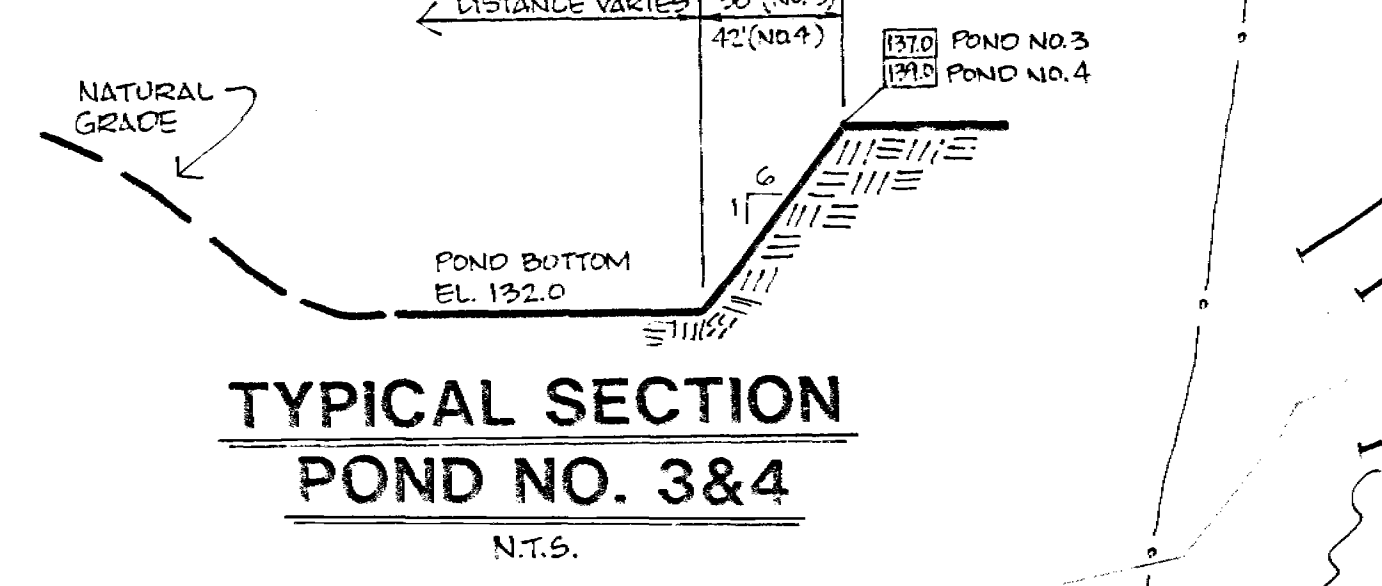
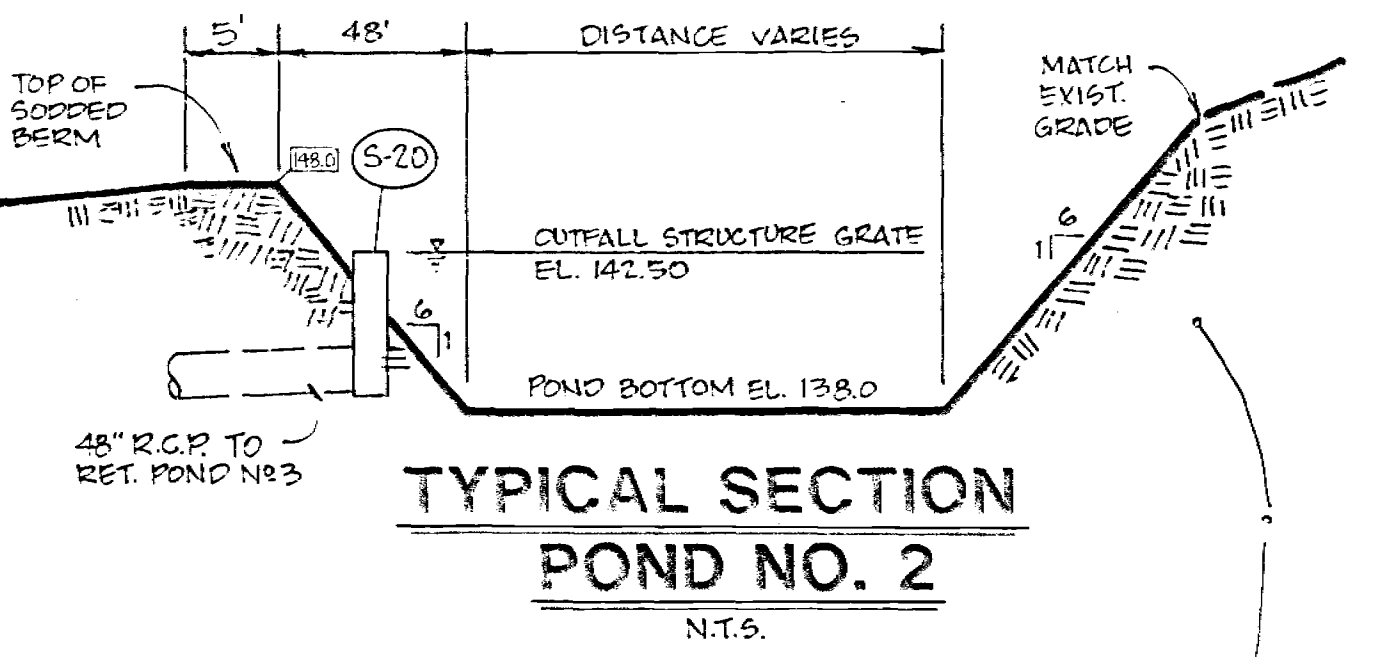
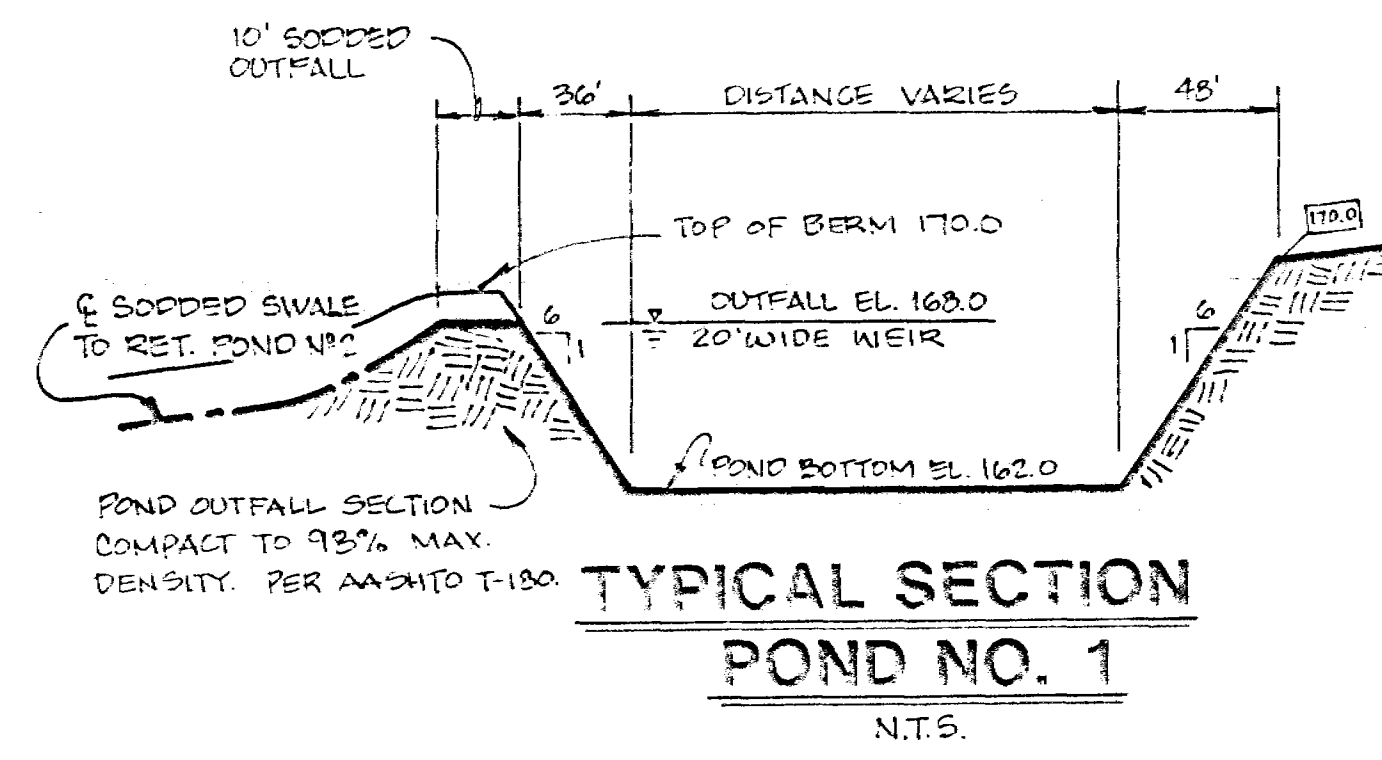
LOST LAKE

SCATTERED PINES (PLANTED)

N
SCALE 1"=400'

SHEET 8 OF 8

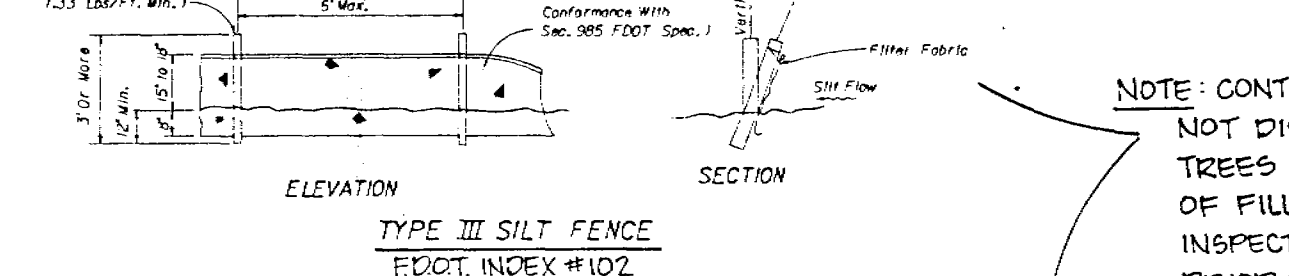
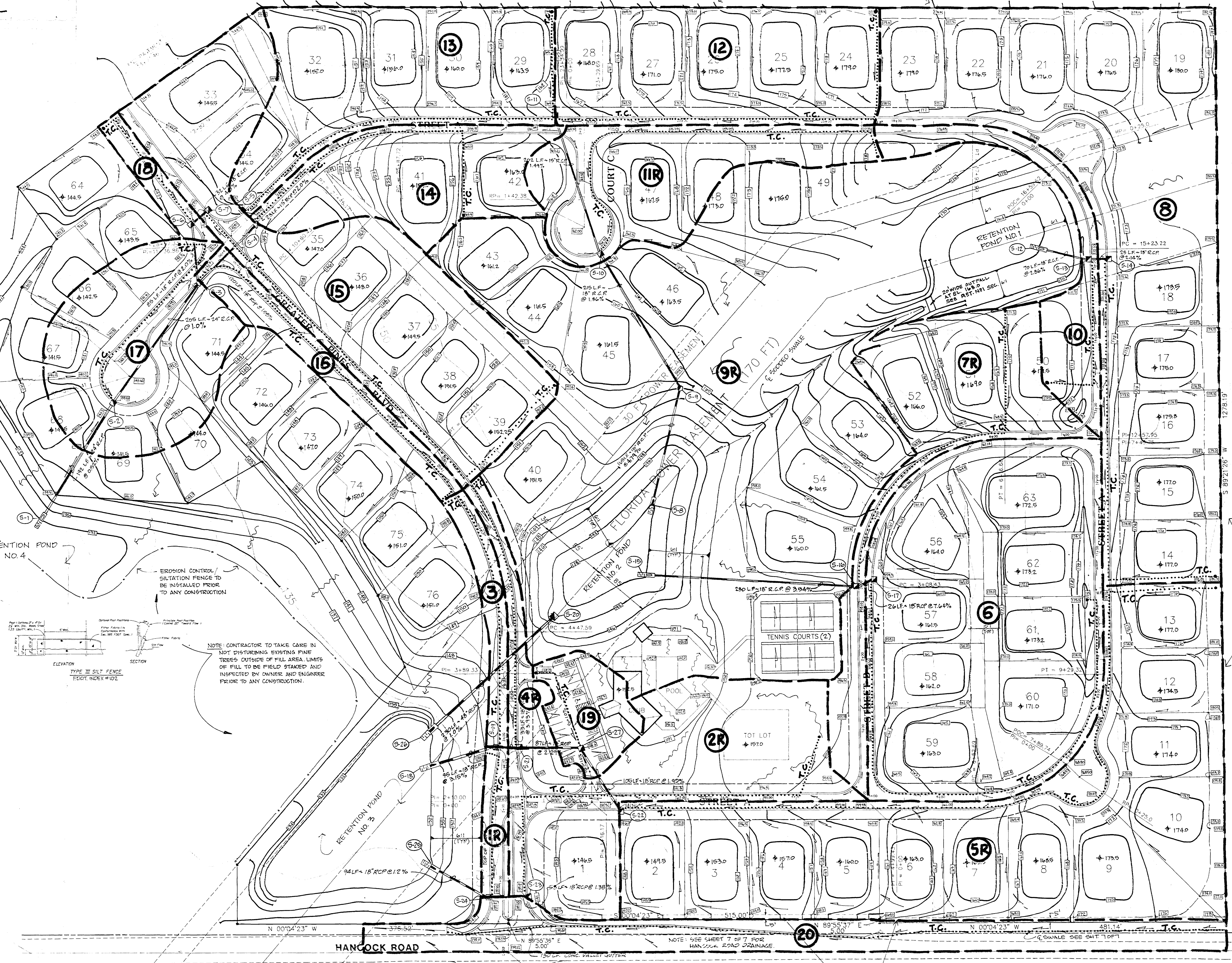
TREE LOCATION MAP



140

STRUCTURE I.D.	DESCRIPTION	LOCATION	F.O.D.T. INDEX NO.	FLOW LINE	OTHER
S-1	MITERED END W/ FLOW DISS.	RET. POND NO. 1	272	132.00	24" RCP
S-2	P-2, 4" DIA.	SEE PLAN	200 & 210	N. 133.10 S. 133.00	EDP-139.50
S-3	J-1, 6" DIA.	STA 28+42.14.5' LT.	200 & 210	N. 135.25 S. 135.15 NW. 135.25	EDP-141.6
S-4	P-1, 4" DIA.	STA 28+45.15.5' LT.	200 & 210	N. 137.24 S. 137.14	EDP-143.75
S-5	P-1, 4" DIA.	STA 28+45.15.5' RT.	200 & 210	E. 137.00	EDP-143.75
S-6	P-2, 4" DIA.	STA 11+85.17.5' LT.	200 & 210	N. 137.05 SE. 136.95	EDP-142.32
S-7	P-2, 4" DIA.	STA 1+56.17.5' RT.	200 & 210	S. 136.50	EDP-142.32
S-8	MITERED END W/ FLOW DISS.	RET. POND NO. 2	272	142.00	18" RCP
S-9	P-2 DIA. W/ TYPE B PRECAST TOP	LOT 45	200 & 201	W. 150.00 E. 149.00	RIM-157.5
S-10	P-2, 4" DIA.	SEE PLAN	200 & 210	W. 155.00 E. 154.00	EDP-161.0
S-11	P-1, 4" DIA.	STA 23+76.15.5' RT.	200 & 210	E. 155.00	EDP-163.47
S-12	MITERED END W/ FLOW DISS.	RET. POND NO. 1	272	164.00	18" RCP
S-13	P-2, 4" DIA.	STA 15+09.15.5' LT.	200 & 210	N. 155.40 S. 155.00	EDP-170.50
S-14	P-2, 4" DIA.	STA 15+09.15.5' RT.	200 & 210	S. 155.00	EDP-170.50
S-15	MITERED END W/ FLOW DISS.	RET. POND NO. 2	272	142.00	18" RCP
S-16	P-2, 4" DIA.	STA 4+08.14.5' LT.	200 & 210	N. 152.00 S. 151.90	EDP-157.80
S-17	P-2, 4" DIA.	STA 3+08.14.5' RT.	200 & 210	S. 154.00	EDP-157.80
S-18	MITERED END W/ FLOW DISS.	RET. POND NO. 2	272	132.00	18" RCP
S-19	P-2, 4" DIA.	STA 3+14.15.5' LT.	200 & 210	N. 135.20 S. 135.00	EDP-144.17
S-20	TYPE H INLET	RET. POND NO. 2	232	SE. 134.30	STL. RETICULINE GRATE EL. 142.50
S-21	P-2, 4" DIA.	STA 3+14.15.5' RT.	200 & 210	N. 136.00 S. 135.50	EDP-144.17
S-22	P-1, 4" DIA.	STA 2+43.15.5' LT.	200 & 210	SW. 141.00	EDP-147.32
S-23	P-1, 4" DIA.	STA 0+77.29' RT.	200 & 210	S. 133.00	EDP-139.20
S-24	P-1, 4" DIA.	STA 0+77.29' LT.	200 & 210	N. 133.00 S. 132.90	EDP-139.20
S-25	MITERED END W/ FLOW DISS.	RET. NO. 3	272	132.00	18" RCP
S-26	MITERED END W/ FLOW DISS.	RET. POND NO. 3	272	SE. 132.00	48" RCP
S-27	"H" INLET W/ STL. RETICULINE GRATE	RET. AREA PARKING	232	E. 138.00	GRATE ELEV. 145.5

*FOR CLIP TYPE INLETS, DIMENSION SHOWN FROM CENTERLINE PAVEMENT TO CENTER OF MANHOLE I.D.



- NOTE:
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LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED MITERED END SECT. & FLOW DISSIPATER
- PROPOSED SYSTEM W/ INLET
- PROPOSED FIN. FLOOR ELEV.
- T.C. PATH

NOTE: GRADE 3" WIDE FLAT SURFACE, 4" FT ABOVE E OF HANCOCK RD. ALONG E. SEE SEC 2-A-SHA SHEET 7 OF 7. COMPACT TO 95% MAX. DENSITY PER AASHTO - T-180.

Conklin Porter and Holmes ENGINEERS, INC.
 POST OFFICE BOX 2688
 500 W. FULTON STREET
 SANFORD, FLORIDA 32771
 TEL 407-322-5841 TEL 407-831-5717

ACTIVITY	NAME	DATE
DESIGNED BY:	JBM/JCB	8/92
DRAWN BY:	DEF	8/92
CHECKED BY:	JCB	8/92
APPROVED BY:	J.C.BRANCH	8/92
REGISTRATION NO.	34791	

NO.	DATE	REVISION	APPROVED

POSTDEVELOPMENT STORM SEWER DRAINAGE MAP
 GREATER PINES PHASE 1
 SCALE: 1"=50'
 DATE: AUG. 1992
 JOB NO. 06765.01
 FILE: GPBAS3

SHEET NO. 1 OF 1

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