MATCH LINE SEE NEXT SHEET

N 5500 | E 5000 | N 5000 | N 4500 | E 5000

CENTER OF TURNAROUND N 5157.00 E 4994.00

INTERMEDIATE CLARIFIER ACCESS ROAD
N 5135.72 E 4980.88
N 5122.96 E 4988.00
E 4988.00

C.B. N 5068.00 E 4978.00

P.C. N 5050.00 E 4979.96

IRON PIN N 5000.00 E 5000.00

CURVE NO. 2
PLANT ACCESS ROAD
R = 100.00'
Δ = 22°-39'-40"
P.I. = N 5050.00 E 5000.00
T = 20.04'
C = 39.23'
L = 39.55'
D = 57°-17'-45"

Iron Pin N 4372.09 E 4965.91

PLANT NORTH
TRUE NORTH
80°-00'-00"

Existing First Stage Trickling Filter

Existing Conc Walk

NEW FIRST STAGE TRICKLING FILTER

CENTER NEW FIRST STAGE TRICKLING FILTER N 4950.00 E 4910.00

12'(TYP)

C.B. N 5030.00 E 4888.00

4'

10' (TYP) 4' CONC. WALK

M.H. N 5098.00 E 4857.00

60'

4'

M.H. N 5075.00 E 4845.00

N 4912.52 E 4869.69

N 4875.86 E 4842.69

N 4879.86 E 4837.03

4' CONC. WALK

Existing Catch Basin (TYP)

Existing Plant Access Road

Existing Valve Pit

NEW 4' CONC. WALK (TYP.)

CURVE NO. 1
NEW PRIMARY CLARIFIER ACCESS ROAD
R = 150.00'
Δ = 36°-39'-06"
P.I. = N 4988.56 E 4680.26
T = 49.68'
C = 94.37'
L = 95.95'
D = 38°-11'-50"

NEW PRIMARY CLARIFIER

4' CONC. WALK

N 4875.86

Existing Digester Control Room

Existing Digester

Existing Digester

Existing Manhole (Typ.)

Existing Sidewalk (Typical)

CURVE NO. 1
PLANT ACCESS ROAD
R = 100.00'
Δ = 80°-45'-00"
P.I. = N 5050.00 E 4705.00
T = 85.03'
C = 129.56'
L = 140.94'
D = 57°-17'-45"

P.O.C. N 5068.99 E 4731.40

P.T. N 5050.00 E 4730.03

IRON PIN N 5000.00 E 4800.00

P.R.C. N 4907.60 E 4722.41

CENTER OF TURNAROUND N 4877.86 E 4718.47

R=30'

R=20'

PC. N 5030.49 E 4706.92

PCC. N 4933.85 E 4696.45

PT. N 4939.01 E 4683.90

PC. N 4875.67 E 4688.55

N 5286.50 E 4754.01

Existing Primary Clarifier

Existing Primary Clarifier

Existing Conc Walk

Existing Waste Gas Burner

NEW 4' CONC. WALK

Existing Dia Box No. 1

N 5282.50 E 4714.01

N 5240.23 E 4678.07

S 9°-15'-00"E

C.B. N 5054.00 E 4703.00

NEW PRIMARY CLARIFIER ACCESS ROAD

CURVE NO. 3
DIKE ACCESS ROAD
R = 62.00'
Δ = 23°-51'-43"
P.I. = N 4725.94 E 4685.38
T = 13.10'
C = 25.64'
L = 25.82'

N 4726.99 E 4689.33

N 4258.39 E 4713.52

TOP SLOPE

N 5200.11 E 4680.55

EQUALITY: STATION 14+00 PLANT ENTRANCE ROAD = STATION 14+00 PLANT ACCESS ROAD

NEW PLANT ACCESS ROAD

CURVE NO. 2
DIKE ACCESS ROAD
R = 120.00'
Δ = 30°-02'-35"
P.I. = N 4904.18 E 4595.27
T = 32.20'
C = 62.20'
L = 62.92'

N 4950.00 E 4668.50

5' CONC. WALK (TYP)

M.H. ON 4871.00 E 4675.00

FLOW CONTROL VAULT

N 4936.00 E 4656.50

N 4904.00 E 4673.50

N 4922.00 E 4657.50

FLOW DIVISION BOX

P.T. N 4875.45 E 4609.79

N 4721.74 E4669.57

N 4277.33 E 4692.52

N 4247.87 E 4665.00

N 4243.91 E 4665.73

TOP SLOPE

N 2°-57'-22"W (445.0')

Iron Pin N 4319.07 E 4652.70

SKIMMER N 4311.43 E 4654.71

N 4245.81 E 4625.05

N 4241.79 E 4624.73

R=15' (TYP)

Existing Conc Flume

NEW ACCESS DRIVE

R=40'(TYP)

R=40'

Δ=87°-49'-44"

P.I.=N 5278.67 E 4675.69

T=38.51'

C=55.49'

L=61.32'

C.B. N 5250.00 E 4640.00

4' OFFSET 10:1 TAPER

N 5139.27 E 4612.52

TOP SLOPE

P.C. N 4936.33 E 4597.08

N 4905.03 E 4599.32

DIKE ACCESS ROAD

N 26°-49'-08"W (200.62')

OVERFLOW STRUCTURE N 4834.23 E 4598.14

N 4707.56 E 4616.23

Iron Pin N 4638.06 E 4589.12

N 4328.47 E 4635.81

R=5' (TYP)

N 5120.43 E 4591.43

TOP SLOPE N 3°-13'-30"E (200.0')

N 4920.75 E 4580.18

SKIMMER N 5105.07 E 4574.24

SKIMMER N 493794 E 4564.82

R=20'

N 4900.78 E 4579.06

FORCE MAIN VENT/AIR RELEASE N 4919.26 E 4562.07

SKIMMER N 4866.01 E 4556.30

Iron Pin N 4774.77 E 4591.06

N 4703.13 E 4530.34

N 4326.44 E 4549.80

(280.0')

N 87°-02'-45"E

N 5375.70 E 4537.06

N 5351.48 E 4573.65

CURVE NO. 1
PLANT ENTRANCE ROAD
R = 90.00'
Δ = 57°-29'
P.I. = N 5269.68 E 4657.06
T = 49.36'
C = 86.56'
L = 90.29'

Existing Headworks & Control Building

NEW CONTROL BUILDING

R=15' (TYP)

S 66°-44' E

N 5068.14 E 4532.90

TOE SLOPE

N 4979.28 E 4527.89

EQUALIZATION OUTLET STRUCTURE N 4971.77 E 4518.96

STORAGE OUTLET STRUCTURE N 4858.46 E 4512.58

N 4848.62 E 4544.92

STORAGE RESERVOIR

E 4500

E 4500

CURVE NO. 1
DIKE ACCESS ROAD
R = 100.00'
Δ = 18°-36'-30"
P.I. = N 5222.39 E 4434.92
T = 16.38'
C = 32.33'
L = 32.48'
D = 57.30'

P.I. N 5344.21 E 4483.72

FLARED END SECTION N 5329 E 4478

R=20' TYP

S 21°-30'W

12'

DIKE ACCESS ROAD

S 3°-13'-30"W

R=20' (TYP)

NEW PLANT ENTRANCE ROAD

Existing Plant Access Road

TOP SLOPE N 86°-46'-30"W (200.0')

EQUALIZATION BASIN

INLET STRUCTURE

N 5067.74 E 4488.31

N 4985.95 E 4483.70

N 4926.37 E 4480.34

12'(TYP)

4'(TYP)

N 4843.81 E 4475.69

N 4854.73 E 4436.40

N 4319.61 E 4464.03

SKIMMER N 4300.71 E 4446.99

N 87°-02'-45"E (280.0')

Unimproved Field Road

TOE SLOPE

N 5073.15 E 4444.04

N 4984.29 E 4439.03

FLARED END SECTION N 5337 E 4455

Existing Water Meter Pit

R=45'

Iron Pin N 5414.77 E 4432.88

30'

R=25'

NEW SITE SIGN N 5335 E 4383

P.O.T. N 5149.51 E 4430.82

SKIMMER N 5114.49 E 4407.11

SKIMMER N 494736 E 4397.69

R=12.5' (TYP)

TOP SLOPE S 3°-13'-30"W (200.0')

N 5131.68 E 4391.75

N 5152.77 E 4372.91

N 4912.03 E 4379.37

N 4932.00 E 4380.50

N 4912.09 E 4359.35

N 4873.83 E 4417.39

TOP SLOPE S 2°-57'-22"E (650.0')

R=12.5' (TYP)

R=5' (TYP)

N 4262.90 E 4412.89

N 4241.90 E 4393.95

TOP SLOPE

Iron Pin N 5433.19 E 4383.18

C-9-280

Iron Pin N 5233.75 E 4345.87

P.I. Sta. 9+98.38 PLANT ENTRANCE ROAD N 5390.85 E 4375.26

Iron Pin N 5034.33 E 4331.31

Hillhouse Road

C-9-280

C-9-282

N 5500 | N 5000 | N 4500

KEY PLAN

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 8390 JAMES B. BROYLES

NO.	DATE	DESCRIPTION	BY	CKD
1	1/90	1 MGD INCREASE CAPACITY TO 6.2 MGD	JBB	CMJ

REVISIONS

RUSSELL & AXON
Engineers — Planners — Architects

UPGRADE AND EXPANSION
GENEROSTEE CREEK WASTEWATER TREATMENT PLANT
ANDERSON, SOUTH CAROLINA

SITE LOCATION PLAN

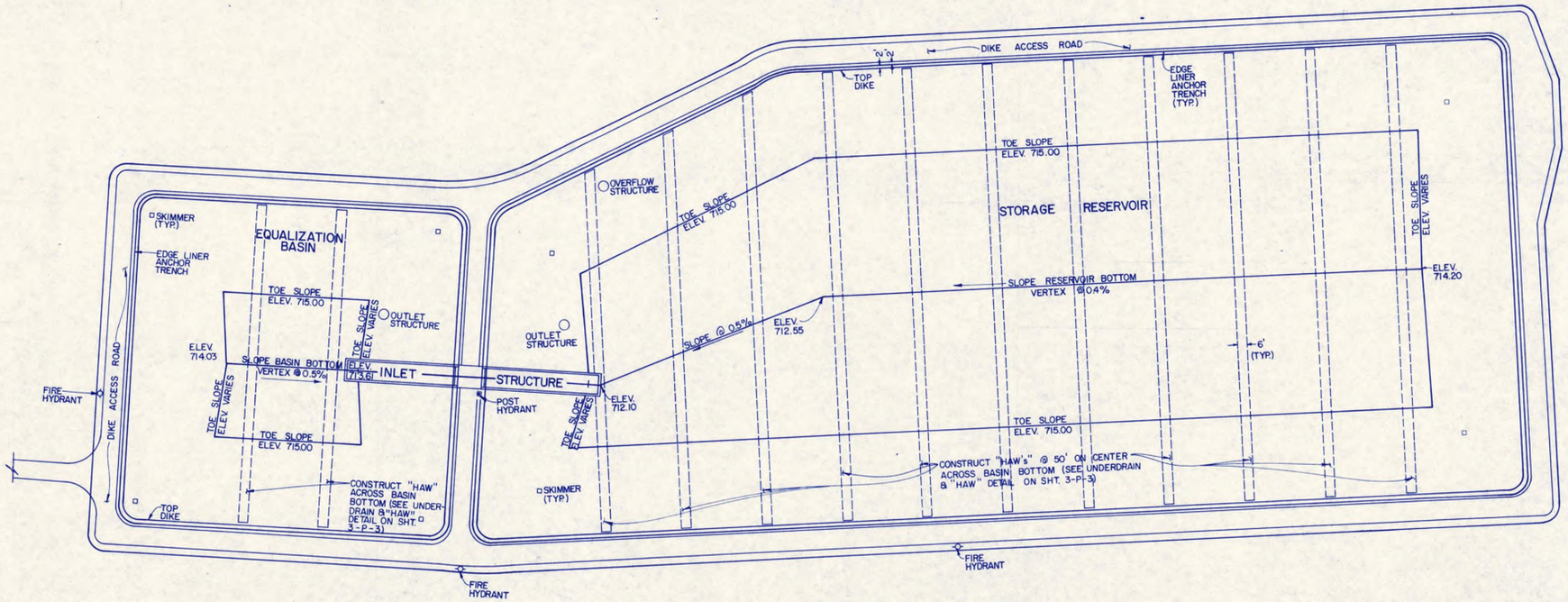
DESIGNED BY	CHECKED BY	SCALE
J.B.B.	C.M.J.	1"=40'
DRAWN BY	DATE	FILE NO.
K.H.M./C.M.B.	6/89	02315

SHEET 1-G-2

PIEDMONT PRINTMAKERS

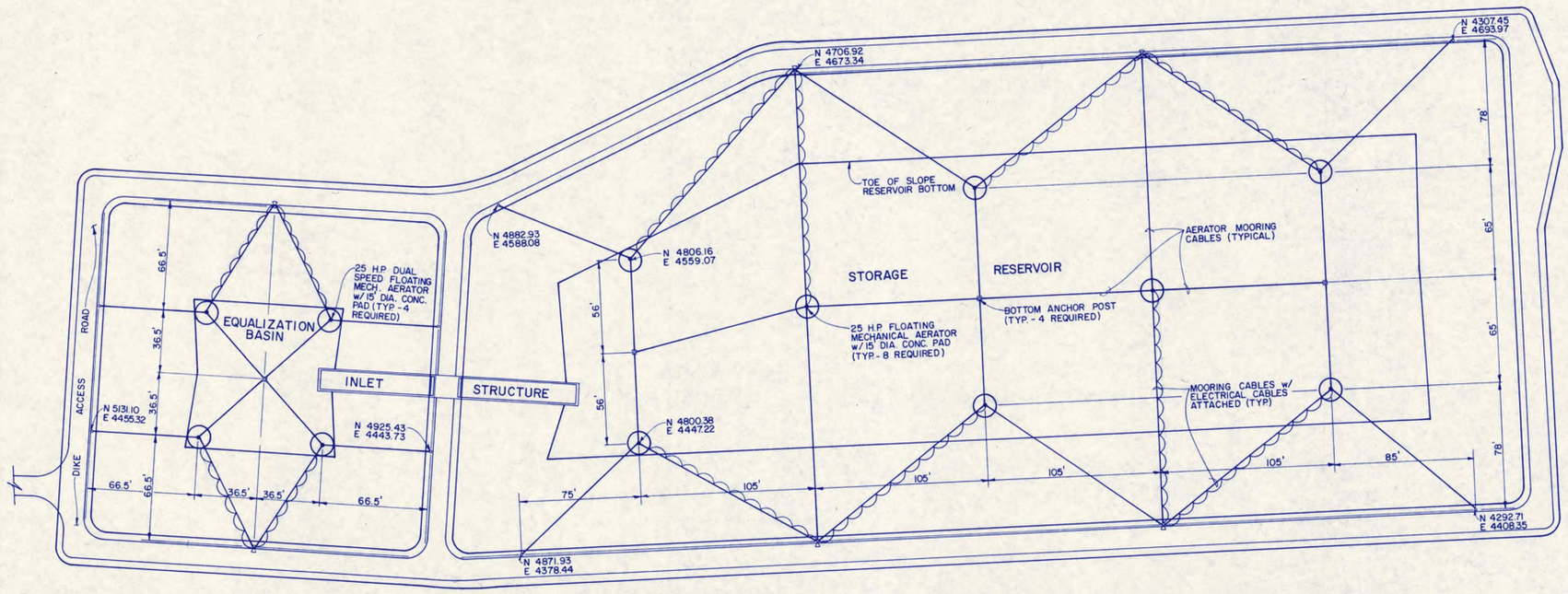
PLANT NORTH

NOTE: BOTH THE EQUALIZATION BASIN AND STORAGE RESERVOIR SHALL BE FULLY LINED WITH A 40 MIL, HIGH DENSITY, POLYETHELENE (HDPE) LINER AND SHALL BE INSTALLED OVER A PREPARED BASE IN COMPLETE COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.



EQUALIZATION BASIN & STORAGE RESERVOIR LINER & BOTTOM GRADING PLAN

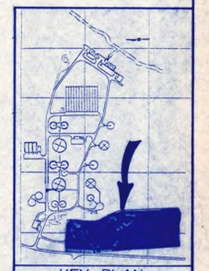
SCALE: 1" = 40'



EQUALIZATION BASIN & STORAGE RESERVOIR AERATOR LAYOUT PLAN

SCALE: 1"= 40'

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER NO. 7974 ROBERT TOLAR



KEY PLAN

NO.	DATE	DESCRIPTION	BY	CKD.
1	1/90	1 MGD INCREASE CAPACITY TO 6.2 MGD	JBB	CMJ

REVISIONS

RUSSELL & AXON
Engineers — Planners — Architects

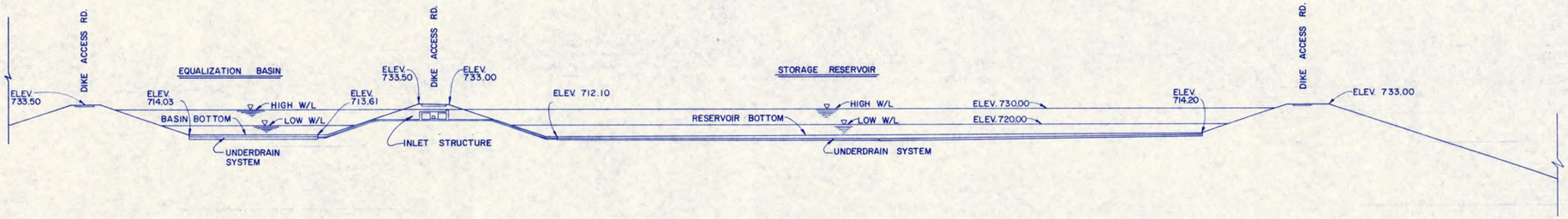
UPGRADE AND EXPANSION
GENEROSTEE CREEK WASTEWATER TREATMENT PLANT
ANDERSON, SOUTH CAROLINA

EQUAL. BASIN & STORAGE RES. PLAN

DESIGNED BY	CHECKED BY	SCALE:
J.R.T.	J.B.B.	1" = 40'
DRAWN BY	DATE	FILE NO.
C.M.B	6/89	02315

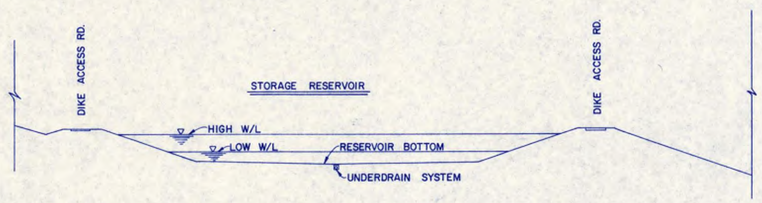
SHEET 3-P-1

BRUNING 44-142 54537



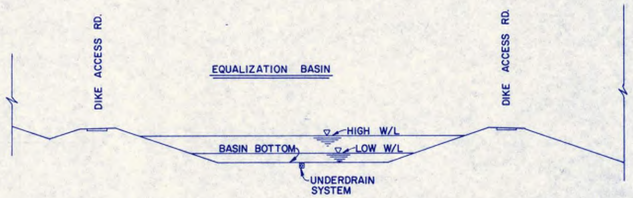
LONGITUDINAL SECTION OF EQUALIZATION BASIN & STORAGE RESERVOIR

(LOOKING EAST THRU ℄ OF BOTTOMS)



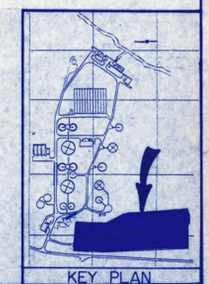
SECTION OF STORAGE RESERVOIR

(LOOKING NORTH)



SECTION OF EQUALIZATION BASIN

(LOOKING NORTH)



KEY PLAN

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 8390 JAMES B. BROYLES

NO.	DATE	DESCRIPTION	BY	CKD.
1	1/90	1 MGD INCREASE CAPACITY TO 6.2 MGD	JBB	CMJ

REVISIONS

RUSSELL & AXON
Engineers — Planners — Architects

UPGRADE AND EXPANSION
GENEROSTEE CREEK WASTEWATER TREATMENT PLANT
ANDERSON, SOUTH CAROLINA

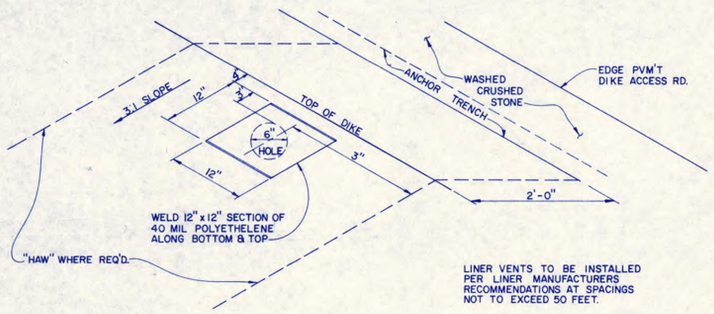
EQUALIZ. BASIN & STORAGE RES.
TYPICAL CROSS SECTIONS

DESIGNED BY	CHECKED BY	SCALE
J.B.B.	C.M.J.	1"=40'
DRAWN BY	DATE	FILE NO.
C.M.B.	6/89	02315

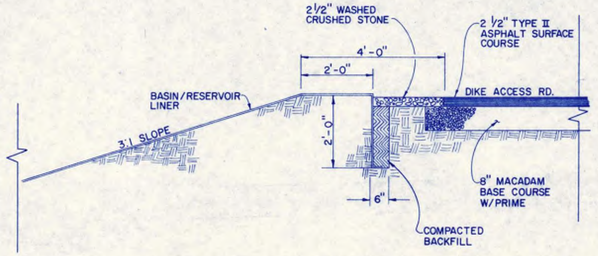
SHEET 3-P-2

AB1190

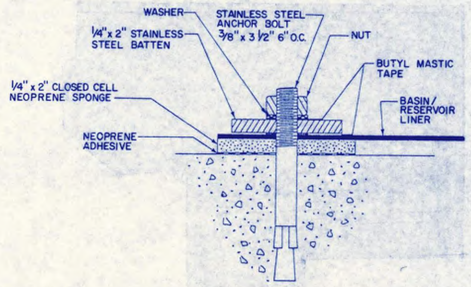
PIEDMONT PRINTMAKERS



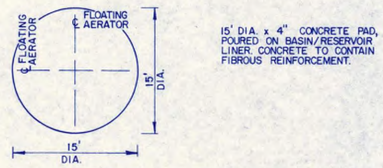
TYPICAL LINER VENT INSTALLATION
N.T.S.



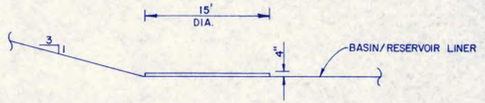
BASIN / RESERVOIR LINER TYPICAL ANCHOR TRENCH DETAIL
N.T.S.



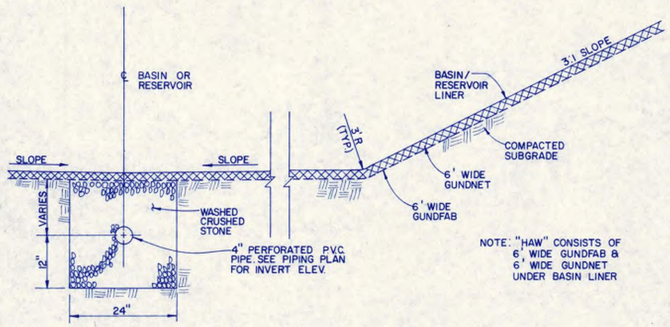
LINER ANCHORING TO STRUCTURE
N.T.S.



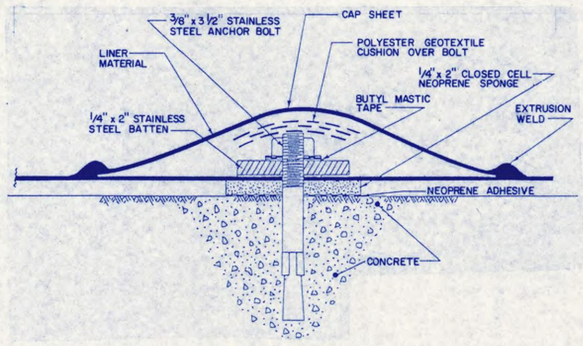
15' DIA. x 4" CONCRETE PAD, POURED ON BASIN/RESERVOIR LINER. CONCRETE TO CONTAIN FIBROUS REINFORCEMENT.



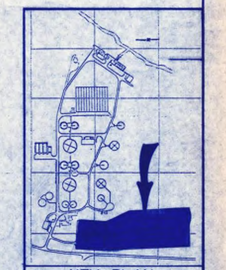
AERATOR PAD
N.T.S.



UNDERDRAIN & "HAW" DETAIL
N.T.S.



ANCHORING TO STRUCTURE WITH CAP SHEET
N.T.S.



NO.	DATE	DESCRIPTION	BY	CKD.
1	1/90	1 MGD INCREASE CAPACITY TO 6.2 MGD	JBB	CMJ

REVISIONS

RUSSELL & AXON
Engineers — Planners — Architects

UPGRADE AND EXPANSION
GENEROSTEE CREEK WASTEWATER TREATMENT PLANT
ANDERSON, SOUTH CAROLINA

EQUAL. BASIN AND STORAGE RES. DETAILS

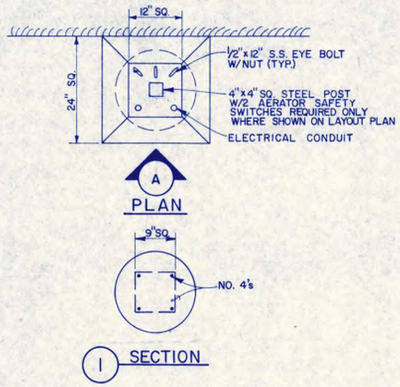
DESIGNED BY	CHECKED BY	SCALE:
J.B.B.	C.M.J.	N.T.S.
DRAWN BY	DATE	FILE NO.
C.M.B.	6/89	02315

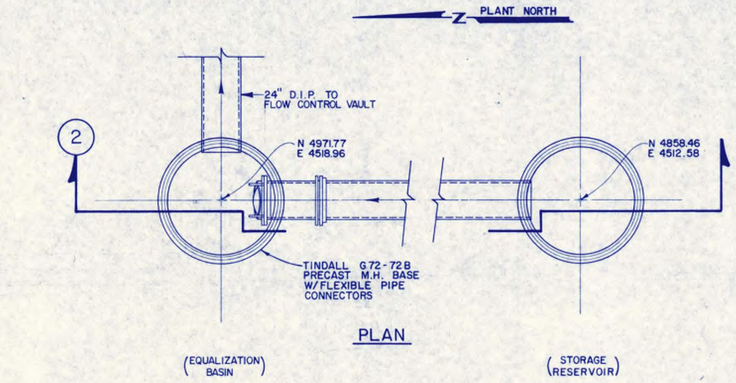
SHEET 3-P-3

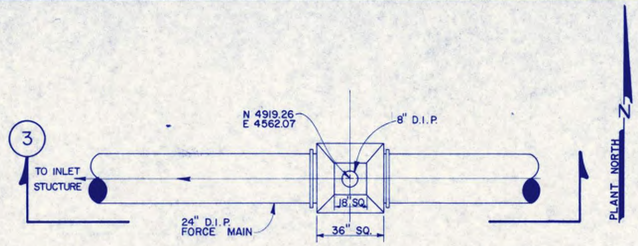
AB1190

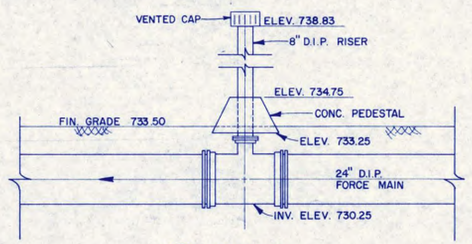
PIEDMONT PRINTMAKERS

AB1190



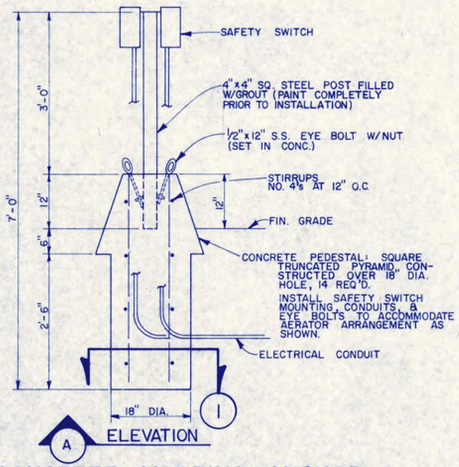






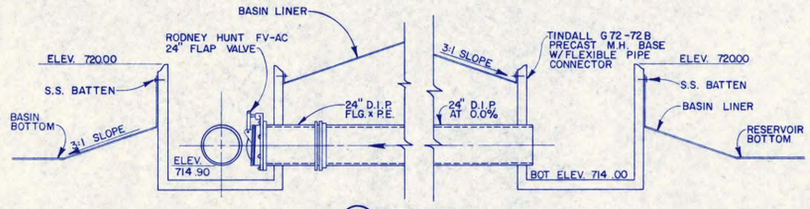
FORCE MAIN VENT / AIR RELEASE

N.T.S.



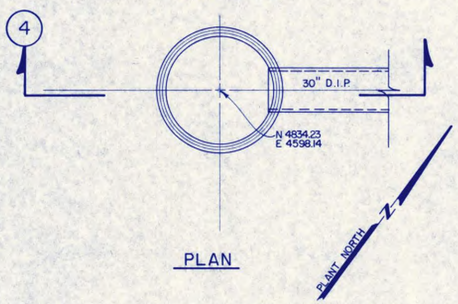
CONCRETE MOORING ANCHOR

SCALE : 3/4"=1'-0"



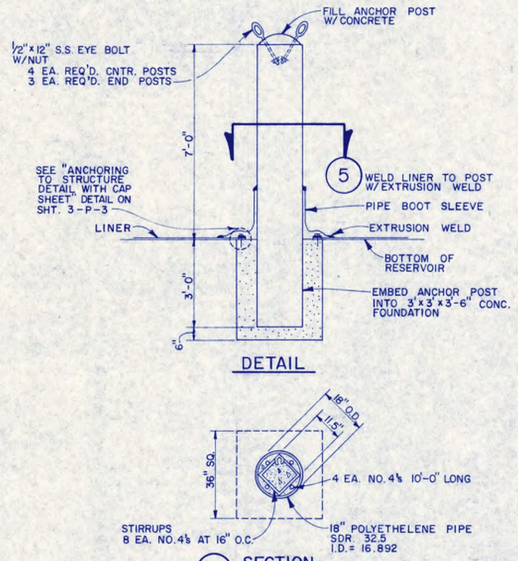
BASIN / RESERVOIR OUTLET STRUCTURES

N.T.S.



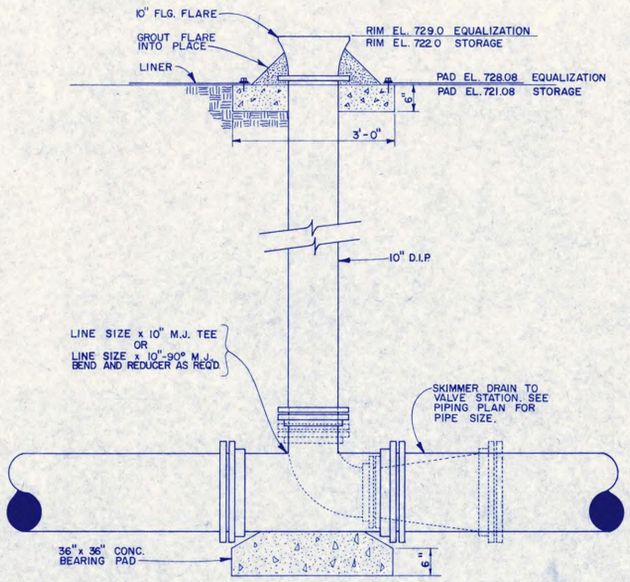
STORAGE RESERVOIR OVERFLOW STRUCTURE

N.T.S.



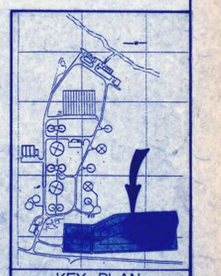
BOTTOM ANCHOR POST

N.T.S.



TYPICAL SKIMMER OUTLET

SCALE : 3/4"=1'-0"



SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER NO. 7974 ROBERT TOLAR

NO	DATE	DESCRIPTION	BY	CKD.
1	1/90	1 MGD INCREASE CAPACITY TO 6.2 MGD	JBB	CMJ

REVISIONS

RUSSELL & AXON
Engineers — Planners — Architects

UPGRADE AND EXPANSION
GENEROSTEE CREEK WASTEWATER TREATMENT PLANT
ANDERSON, SOUTH CAROLINA

EQUAL. BASIN AND STORAGE RES. DETAILS

DESIGNED BY	CHECKED BY	SCALE:
J.R.T.	C.M.J.	AS SHOWN
DRAWN BY	DATE	FILE NO.
R.C.B.	6/89	02315

SHEET 3-P-4

PIEDMONT PRINTMAKERS