FAYETTE County
Create Your Story!

Purchasing Department
140 Stonewall Avenue West, Ste 204
Fayetteville, GA 30214
Phone: 770-305-5420
www.fayettecountyga.gov

November 24, 2021

Subject: RFQ, #2037-A: Kedron Dam Spillway Repairs
Addendum #1

Gentlemen/Ladies:

Below, please find responses to questions, clarification, or additional information for the above referenced Request for Quotes. You will need to consider this information when preparing your quote.

1. **Are any other documents going to be provided for this bid opportunity?**
   See attached: Attachment 1 As-builts, Attachment 2pictures and Attachment 3 SIKA project sheets.

2. **Is there a permit required for this project?**
   No.

3. **It there a fresh water spicket located near the scope of work?**
   No.

4. **Is there any restrictions or containment with grinding or cutting concrete in this area?**
   No.

5. **Is there a power outlet near by to run small handheld equipment? Or will we need to provide generators?**
   Awarded contractor will need to provide their own generator.

6. **For bidding purposed what is the width of the joints to be removed?**
   Plans show the joints are ¾" wide but some joints appear wider.

Received by (Name): _____ Company_____

Note: If this addendum is not returned to the Fayette County Purchasing Department or if it is returned not signed, responding individuals, companies or other organizations will still be responsible for the requirements of this addendum and the specifications or changes herein.

The opening date for this RFQ has not changed. **The opening time and date are 3:00 p.m., Monday, December 6, 2021.** Quotes must be received by the Purchasing Department at the address above, Suite 204, at or before the opening date and time.

The deadline for inquiries has passed, so the Purchasing Department will not be able to accept any additional questions after this time.

If you have questions, please contact Natasha Duggan, Contract Administrator at (770) 305-5150, fax (770) 719-5534 or email at nduggan@fayettecountyga.gov.

Sincerely,

Ted L. Burgess
Director of Purchasing

WATER SYSTEM IMPROVEMENTS
FOR
FAYETTE COUNTY, GEORGIA

CONTRACT II

DAM, SPILLWAY, & RESERVOIR

AS-BUILTS

Mallett & Associates
4313 CAMP HIGHLAND RD SMYRNA, GEORGIA 30080
404/432-5634

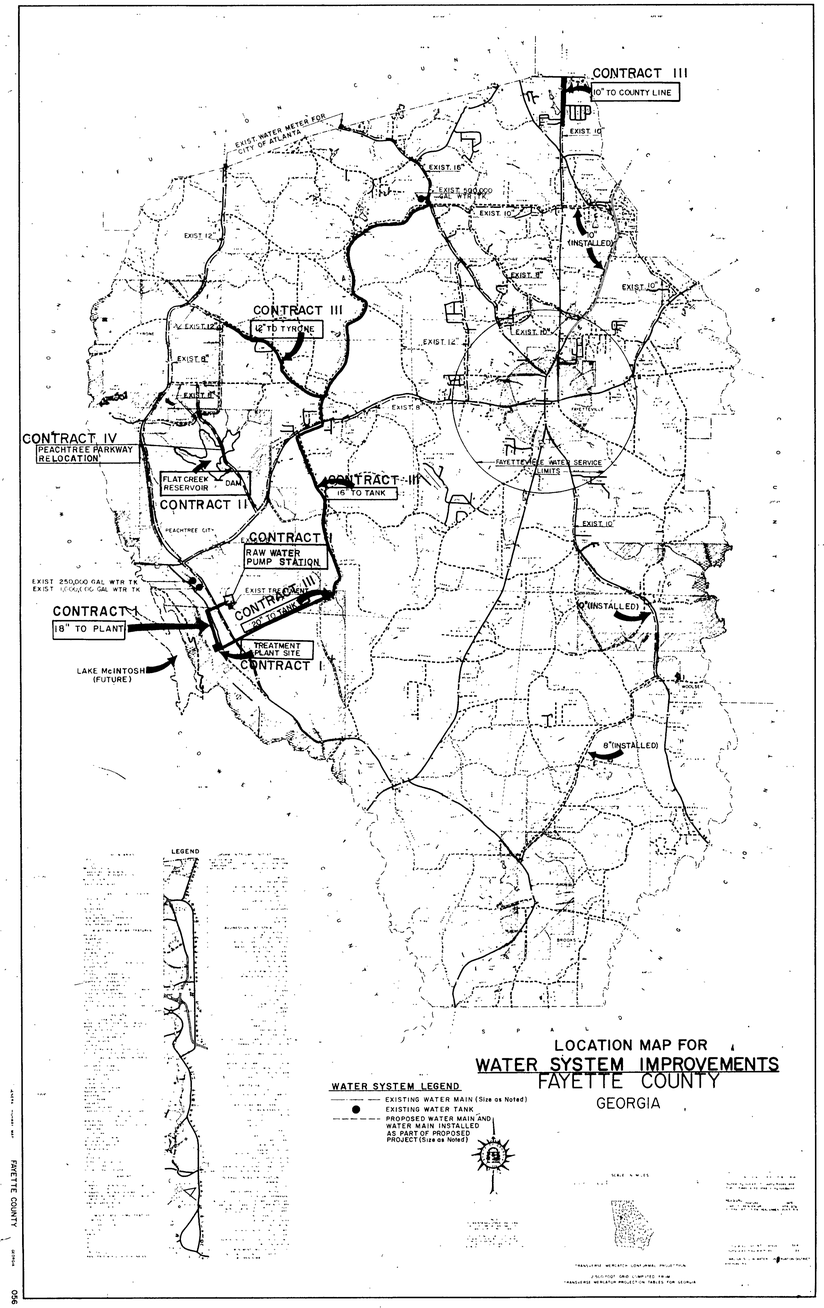
WATER SYSTEM IMPROVEMENTS
for
FAYETTE COUNTY, GEORGIA

DAM, SPILLWAY, & RESERVOIR
COVER SHEET

REV NO	DATE	DESCRIPTION	BY	APP'D BY
3	5/22/87	AS-BUILTS	DWJ	JEM
2	12/6/85	UPDATED	SDB	JEM
1	11/24/85	GENERAL	SB	JEM

LAND LOT-
DISTRICT-
COUNTY-
STATE-

DESIGN	N/A
DRAWN	LED
CHECK	MFL
APPROVED	JEM
SCALE	N/A
DATE	6/18/84
FILE NO.	83175-2
SHEET NO.	1 OF 22



SUMMARY OF PROJECT

CONTRACT I

1. 4.0 M.G.D. WATER TREATMENT PLANT
2. RAW WATER PUMP STATION
3. 18" DIA. RAW WATER LINE TO PLANT

CONTRACT II ◀ THIS CONTRACT

1. DAM, SPILLWAY, & RESERVOIR

CONTRACT III

1. WATER DISTRIBUTION SYSTEM
   a. 20" & 16" DIA. LINES FROM PLANT TO TANK @ HWY 92
   b. 12" DIA. LINE FROM FLAT CREEK ROAD TO TYRONE
   c. 10" DIA. LINE ALONG HWY 314 TO COUNTY LINE

CONTRACT IV

1. PEACHTREE PARKWAY RELOCATION

INDEX TO DRAWINGS

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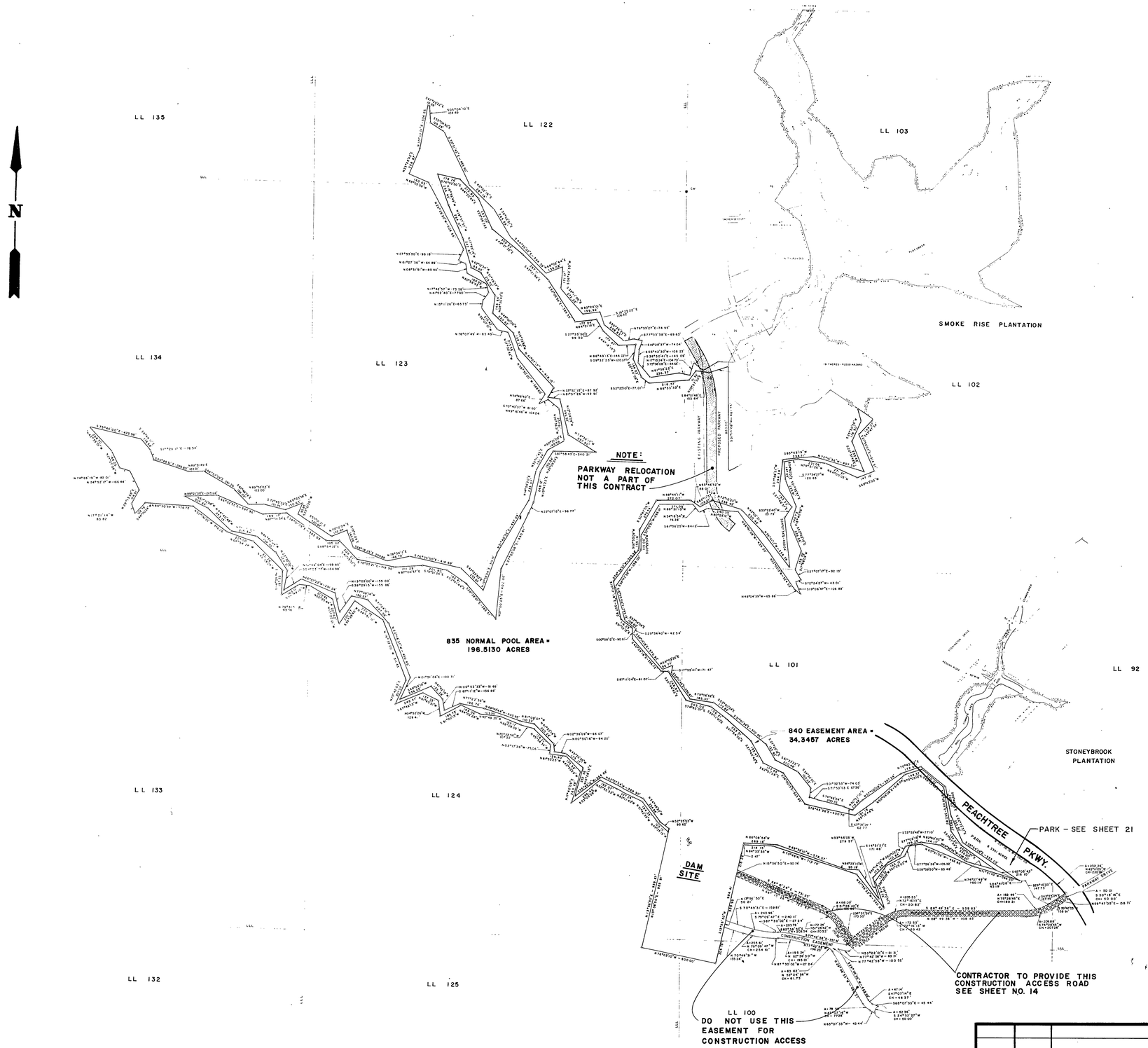
WATER SYSTEM IMPROVEMENTS
for
FAYETTE COUNTY, GEORGIA

DAM, SPILLWAY & RESERVOIR
LOCATION MAP & INDEX TO DRAWINGS

REV. NO.	DATE	DESCRIPTION	BY	APP'D BY
⚠	12/6/85	UPDATED	SDB	JEM

LAND LOT-
DISTRICT-
COUNTY-
STATE-

DESIGN	N/A
DRAWN	LED
CHECK	MFL
APPROVED	JEM
SCALE	AS SHOWN
DATE	6/18/84
FILE NO.	83175-2
SHEET NO.	2 OF 22



NOTES

1. TOTAL AREA OF TAKE = 269.7240 acres (840 & 835)
2. TOTAL EASEMENT AREA = 36.5376 acres (840)

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WATER SYSTEM IMPROVEMENTS for FAYETTE COUNTY, GEORGIA

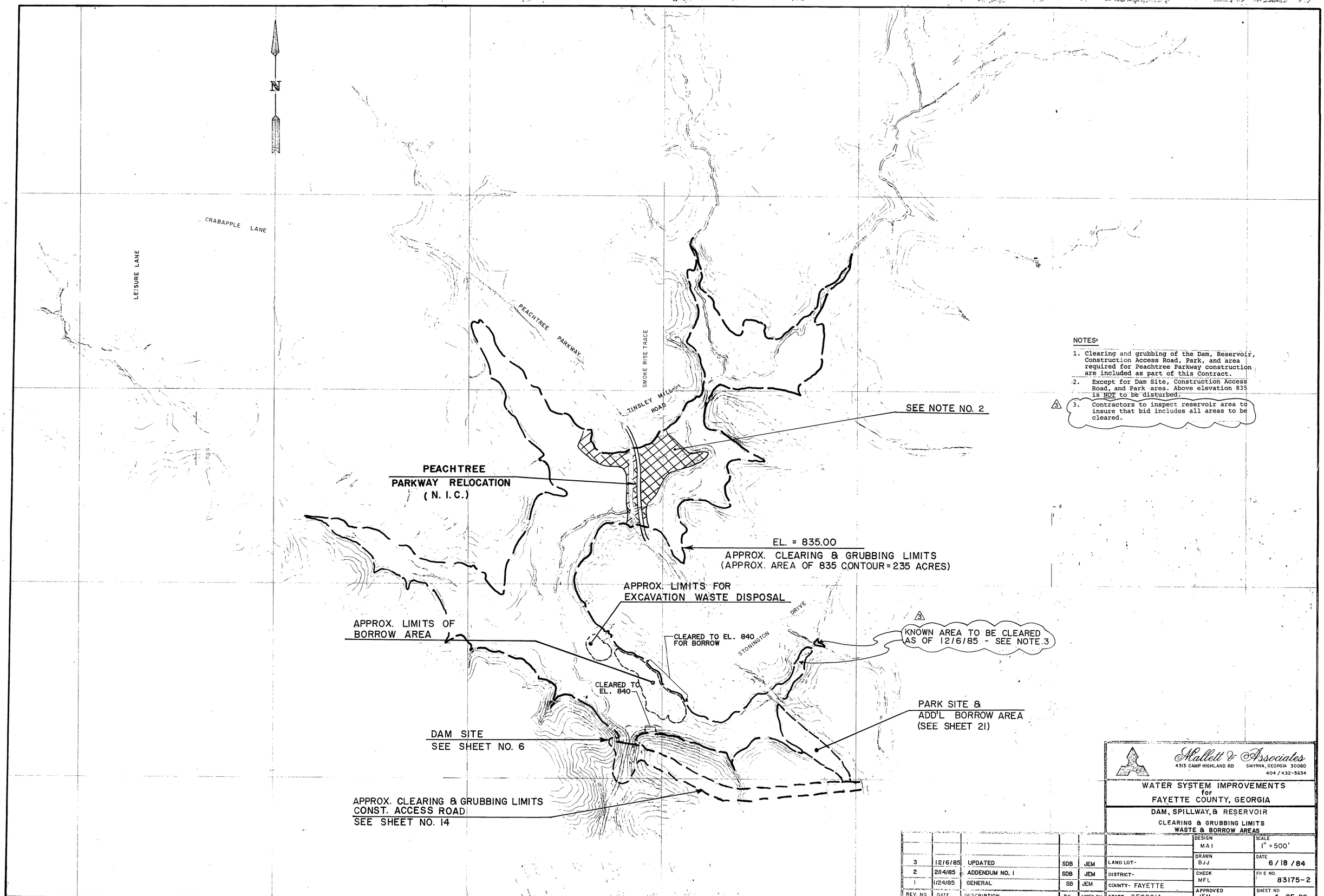
DAM, SPILLWAY, & RESERVOIR

COMPOSITE PLAT

REV. NO.	DATE	DESCRIPTION	BY	APP'D BY
2	12/6/85	UPDATED	SDB	JEM
1	1/28/84	ADDED LAND LOT NUMBERS	LED	MFL

LAND LOT- AS SHOWN
DISTRICT- 7th
COUNTY- FAYETTE
STATE- GEORGIA

DESIGN	MAI
DRAWN	SNB
CHECK	JEM
APPROVED	MFL
SCALE	1" = 400'
DATE	6/18/84
FILE NO.	83175-2
SHEET NO.	3 OF 22



NOTES:

1. Clearing and grubbing of the Dam, Reservoir, Construction Access Road, Park, and area required for Peachtree Parkway construction are included as part of this Contract.
2. Except for Dam Site, Construction Access Road, and Park area. Above elevation 835 is NOT to be disturbed.
3. Contractors to inspect reservoir area to insure that bid includes all areas to be cleared.

REV. NO	DATE	DESCRIPTION	BY	APP'D BY
3	12/6/85	UPDATED	SDB	JEM
2	2/14/85	ADDENDUM NO. 1	SDB	JEM
1	1/24/85	GENERAL	SB	JEM

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WATER SYSTEM IMPROVEMENTS
for
FAYETTE COUNTY, GEORGIA

DAM, SPILLWAY, & RESERVOIR

CLEARING & GRUBBING LIMITS
WASTE & BORROW AREAS

DESIGN MAI	SCALE 1" = 500'
DRAWN BJJ	DATE 6/18/84
CHECK MFL	FILE NO. 83175-2
APPROVED JEM	SHEET NO. 4 OF 22

LAND LOT-
DISTRICT-
COUNTY- FAYETTE
STATE- GEORGIA

FLAT CREEK

GROUT FILLED EROSION FABRIC

CHAIN LINK FENCE

5/13

INTAKE STRUCTURE
SEE SHEET NO. 11

LIMITS FOR CLEARING & GRUBBING = EL. 836 (EXCEPT AS SHOWN FOR DAM SITE)

WALKWAY SEE SHEET NO. 11

PIEZOMETER LOCATIONS
SEE TABLE, SHEET NO. 6

PIEZOMETER TUBING

100'±

PORE PRESSURE TERMINAL
SEE SHEET NO. 13

10' WIDE DBL. GATE

48" D.I.P.

HIGH LEVEL ALARM - SEE SHEET 13

112.50'

89.0'

SLOPE @ 11%

20' CONSTRUCTION ACCESS ROAD - SEE SHEET NO. 15

2/5/13 ROCK FILL TOE DRAIN (EL. 835 TO 811 @ SPILLWAY)

50'±

STILLING BASIN
(TOP OF SLAB ELEV. 799.29)

GROUT FILLED EROSION FABRIC

GROUT FILLED EROSION FABRIC

RIP-RAP

EROSION CONTROL FACILITIES
SEE SHEET NO. 13

NOTES:

1) CONTRACTOR MAY RELOCATE 48" DIP WITHIN SPILLWAY TO FACILITATE CONSTRUCTION AT NO ADDITIONAL COST TO OWNERS.

3 2) SEE SHEET 22 FOR STATUS OF CONSTRUCTION AND MODIFICATIONS TO THIS DRAWING.

3 3) REPAIR ANY UNDERMINING OF CONCRETE CRADLE W/HIGH STRENGTH GROUT OR APPROVED EQUAL.

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WATER SYSTEM IMPROVEMENTS for FAYETTE COUNTY, GEORGIA

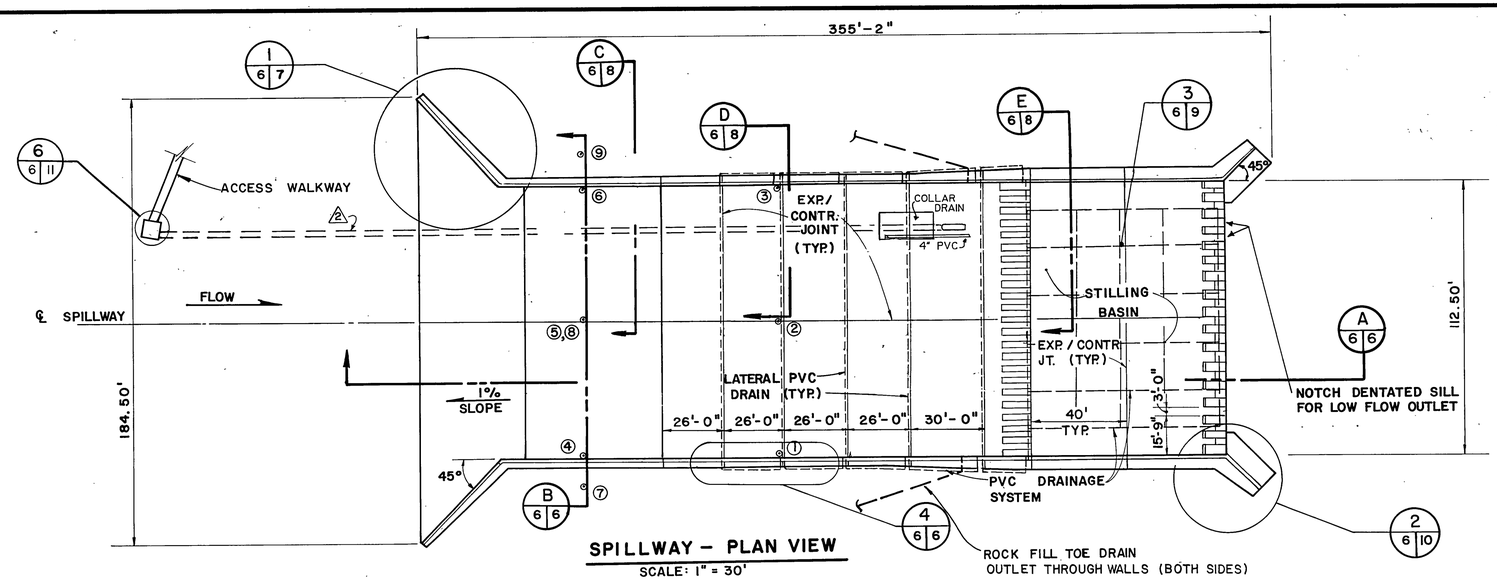
DAM, SPILLWAY, & RESERVOIR GRADING PLAN

REV. NO.	DATE	DESCRIPTION	BY	APP'D BY
3	12/6/85	UPDATED	SDB	JEM
2	2/14/85	ADDENDUM NO. 1	SDB	JEM
1	1/24/85	GENERAL	SB	JEM

DESIGN JEM — SCALE 1" = 50'
DRAWN LED — DATE 6/18/84
CHECK JEM — FILE NO. 83110-
APPROVED JEM — SHEET NO. 7 of 22

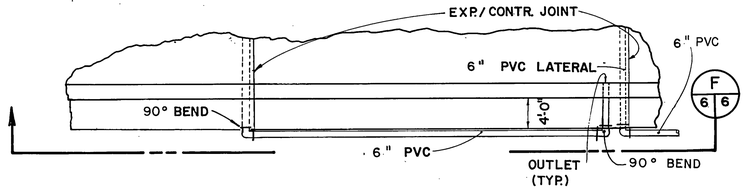
LAND LOT
DISTRICT
COUNTY
STATE

AF 8318



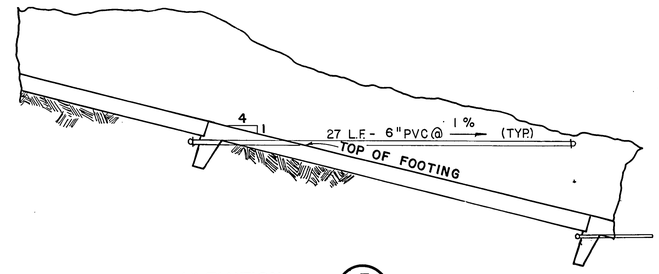
SPILLWAY – PLAN VIEW

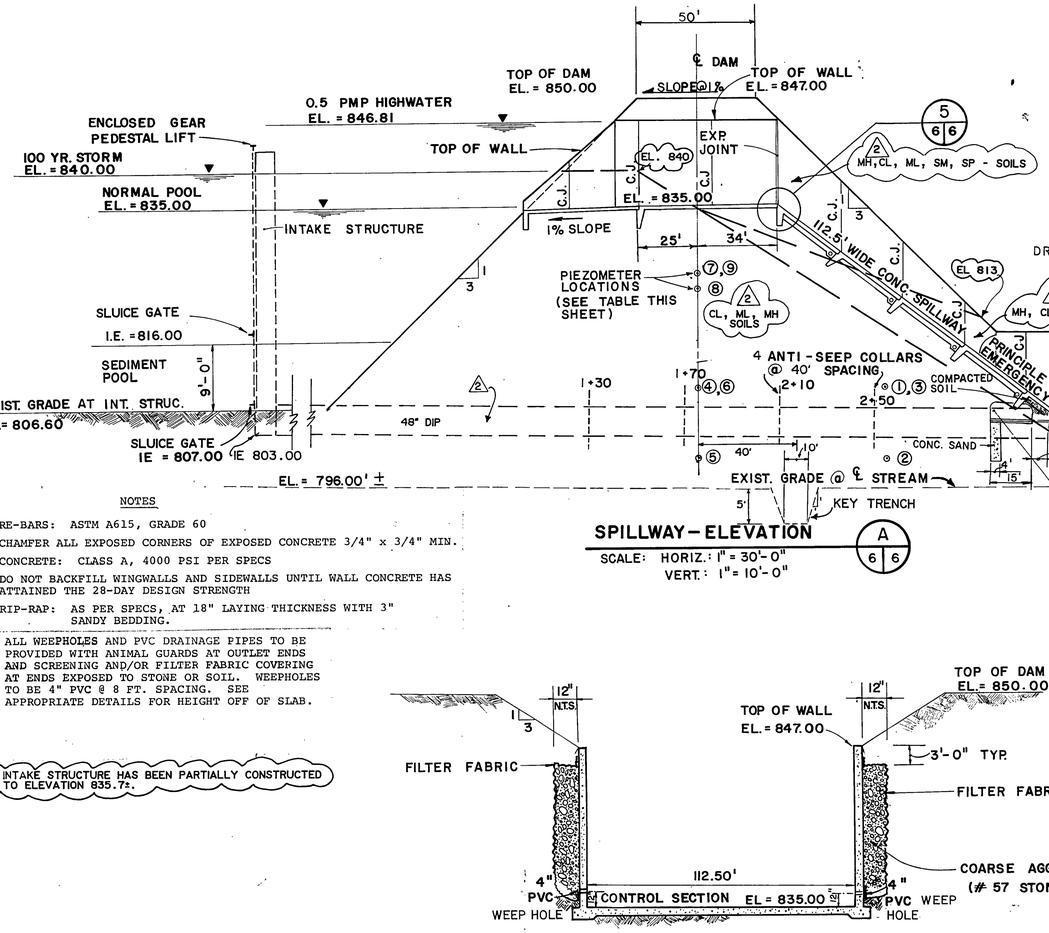
SCALE: 1" = 30'



DETAIL

SCALE: 1" = 5'-0"





SPILLWAY – ELEVATION

SCALE: HORIZ.: 1" = 30'-0"
VERT.: 1" = 10'-0"

ELEVATION

SCALE: 1"=5'-0"

DETAIL

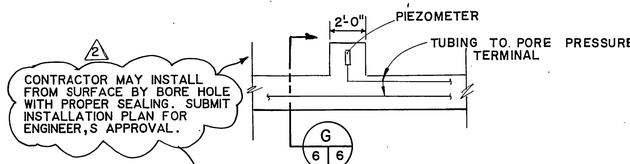
SCALE: 1" = 5'-0"

NOTES

1. RE-BARS: ASTM A615, GRADE 60
2. CHAMFER ALL EXPOSED CORNERS OF EXPOSED CONCRETE 3/4" x 3/4" MIN.
3. CONCRETE: CLASS A, 4000 PSI PER SPECS
4. DO NOT BACKFILL WINGWALLS AND SIDEWALLS UNTIL WALL CONCRETE HAS ATTAINED THE 28-DAY DESIGN STRENGTH
5. RIP-RAP: AS PER SPECS, AT 18" LAYING THICKNESS WITH 3" SANDY BEDDING.
6. ALL WEEPHOLES AND PVC DRAINAGE PIPES TO BE PROVIDED WITH ANIMAL GUARDS AT OUTLET ENDS AND SCREENING AND/OR FILTER FABRIC COVERING AT ENDS EXPOSED TO STONE OR SOIL. WEEPHOLES TO BE 4" PVC @ 8 FT. SPACING. SEE APPROPRIATE DETAILS FOR HEIGHT OFF OF SLAB.
7. INTAKE STRUCTURE HAS BEEN PARTIALLY CONSTRUCTED TO ELEVATION 835.7±.

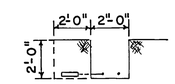
SECTION

SCALE: HORIZ.: 1"= 30'-0"
VERT.: 1" = 5'-0"



PLAN – PIEZOMETER TRENCH (TYP.)

NOT TO SCALE



SECTION– PIEZOMETER TRENCH (TYP.)

NOT TO SCALE

PIEZOMETER #	ELEV.
1	810
2	800
3	810
4	810
5	800
6	810
7	826
8	824
9	826

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WATER SYSTEM IMPROVEMENTS
for
FAYETTE COUNTY, GEORGIA

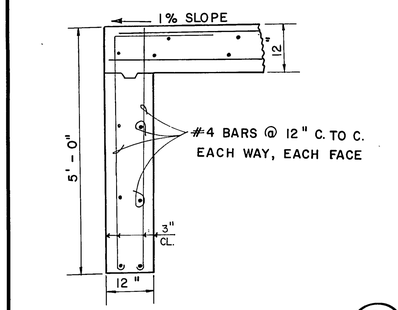
DAM, SPILLWAY, & RESERVOIR

SPILLWAY – PLAN, ELEVATIONS, SECTION, & DETAILS

REV. NO.	DATE	DESCRIPTION	BY	APP'D BY
2	12/6/85	UPDATED	SDB	JEM
1	2/14/85	ADDENDUM NO. 1	SDB	JEM

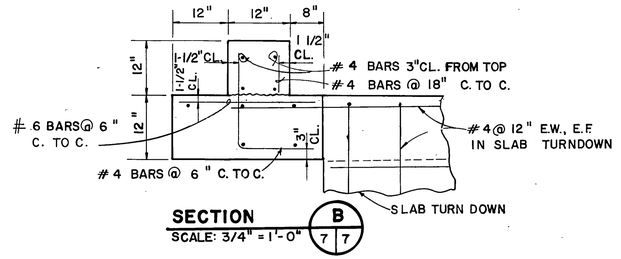
LAND LOT-	
DISTRICT-	
COUNTY-	
STATE-	
DESIGN	DWJ
DRAWN	LED
CHECK	MFL
APPROVED	JEM
SCALE	AS NOTED
DATE	6/18/84
FILE NO.	83175-2
SHEET NO.	6 OF 22

AF 8318

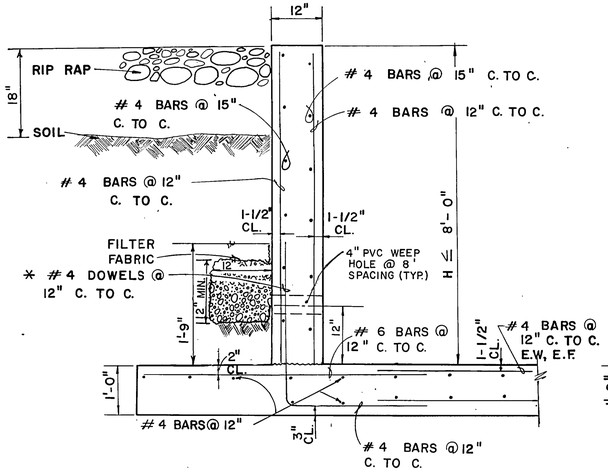


SECTION - SLAB TURN DOWN (D 7/7)
N.T.S.

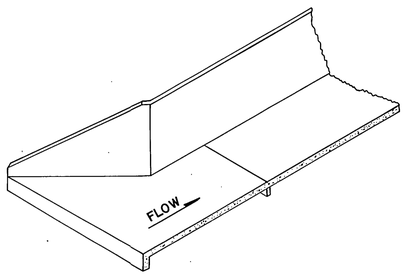
INLET WING WALL AND APRON – PLAN VIEW
SCALE: 1/4" = 1'-0"



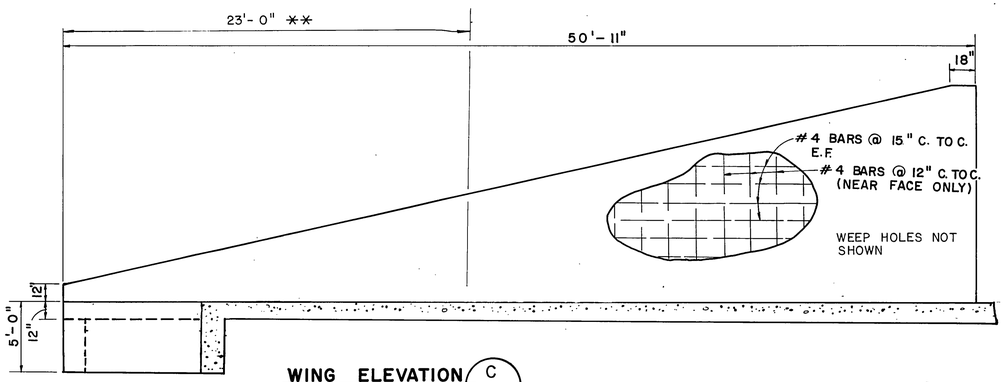
SECTION (B 7/7)
SCALE: 3/4" = 1'-0"



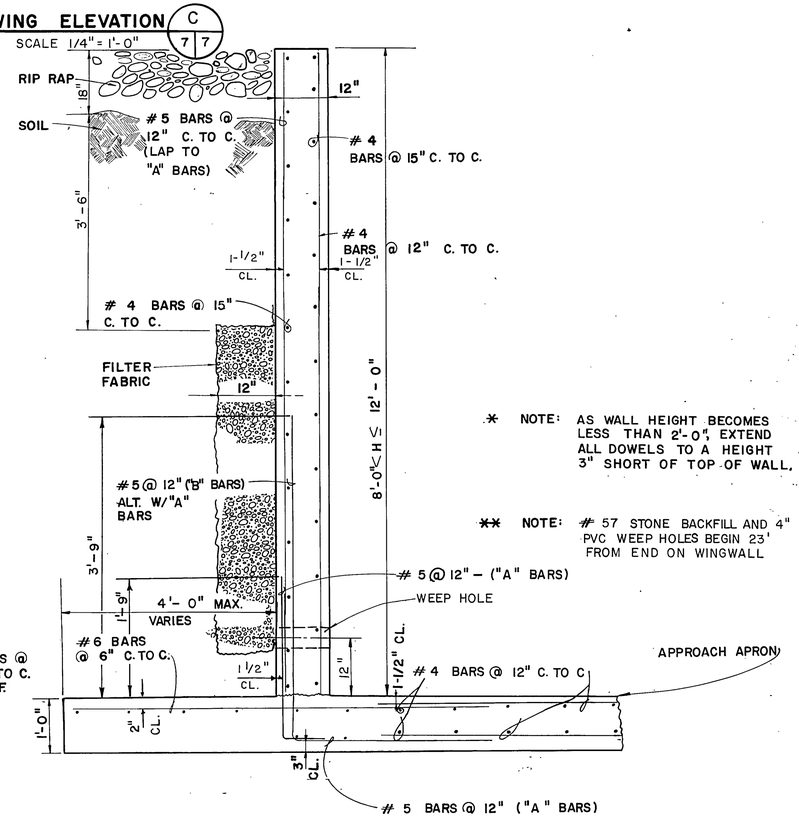
SECTION (E 7/7)
SCALE: 3/4" = 1'-0"



INLET ISOMETRIC
NOT TO SCALE



WING ELEVATION (C 7/7)
SCALE 1/4" = 1'-0"



* NOTE: AS WALL HEIGHT BECOMES LESS THAN 2'-0", EXTEND ALL DOWELS TO A HEIGHT 3" SHORT OF TOP OF WALL.

** NOTE: #57 STONE BACKFILL AND 4" PVC WEEP HOLES BEGIN 23' FROM END ON WINGWALL

SECTION (A 7/7)
SCALE: 3/4" = 1'-0"

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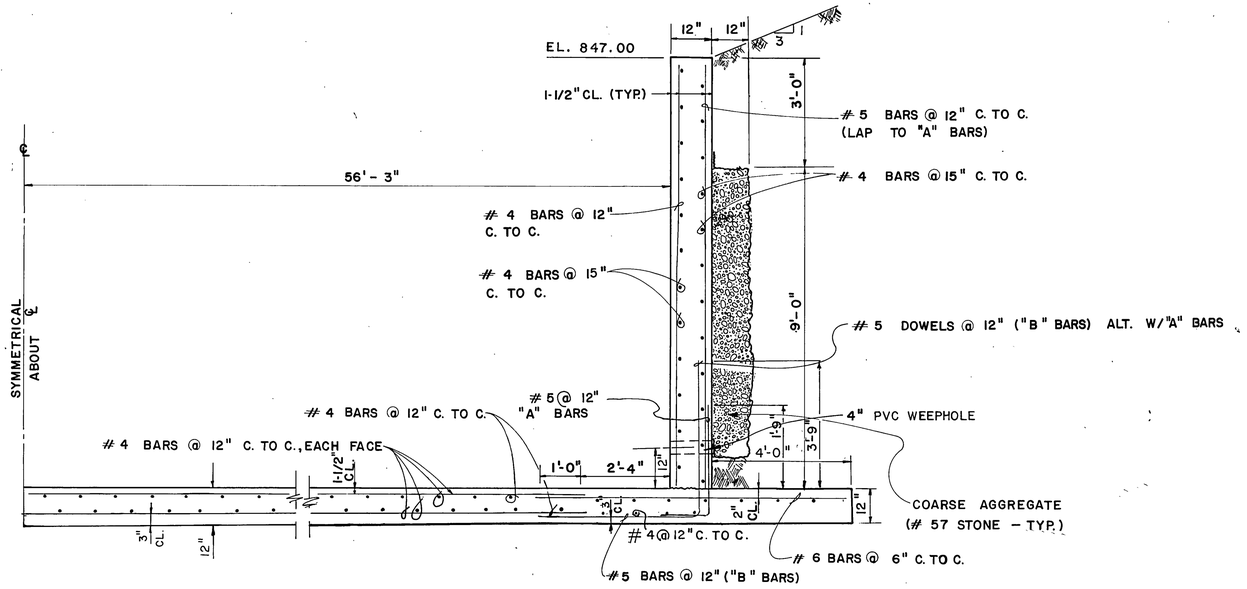
WATER SYSTEM IMPROVEMENTS
for
FAYETTE COUNTY, GEORGIA
DAM, SPILLWAY, & RESERVOIR
INLET WING WALL AND APRON DETAILS

REV. NO.	DATE	DESCRIPTION	BY	APP'D BY
1	12/6/85	UPDATED	SDB	JEM

LAND LOT-
DISTRICT-
COUNTY-
STATE-

DESIGN DWJ	SCALE AS NOTED
DRAWN LED	DATE 6/18/84
CHECK MFL	FILE NO. 83175-2
APPROVED JEM	SHEET NO. 7 OF 22

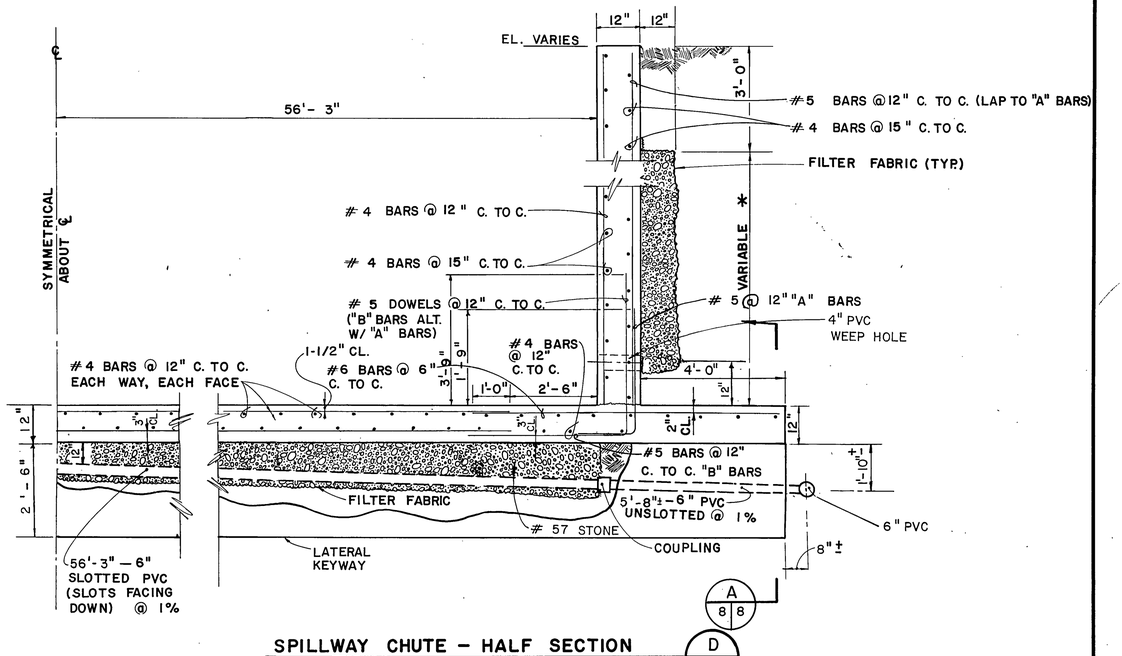
AF 8318



CONTROL SECTION - HALF SECTION

SCALE: 1/2"=1'-0"

C 6,9 | 8

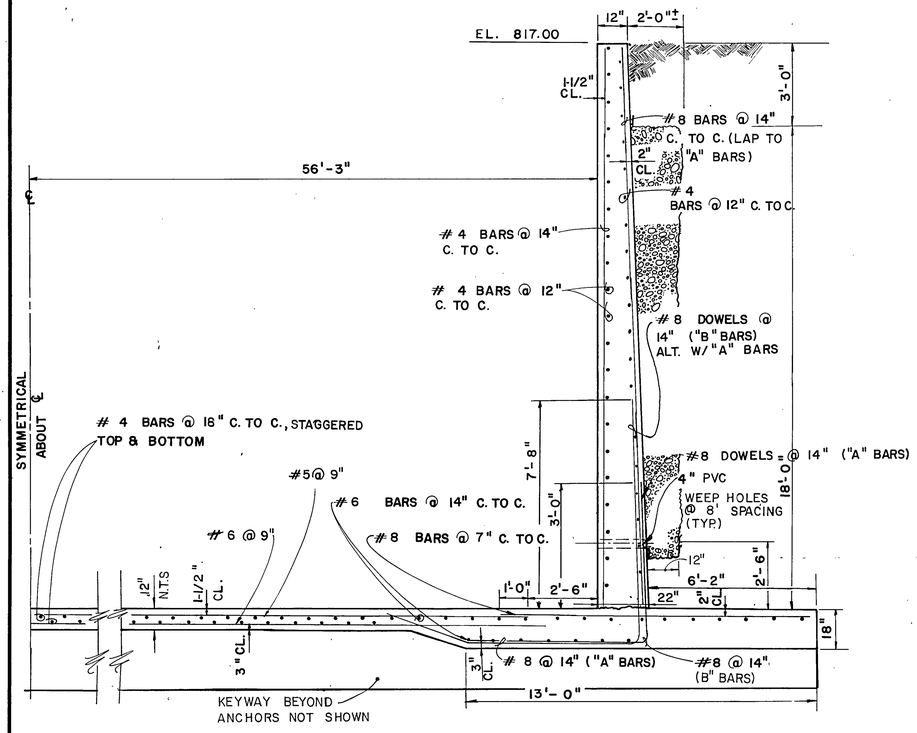


SPILLWAY CHUTE - HALF SECTION

SCALE: 1/2"=1'-0"

A 8 | 8

D 6 | 8



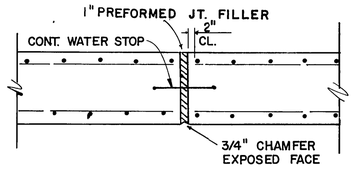
NOTE: DRAINAGE FILTER NOT SHOWN FOR CLARITY

STILLING BASIN - HALF SECTION

SCALE: 3/8" = 1'-0"

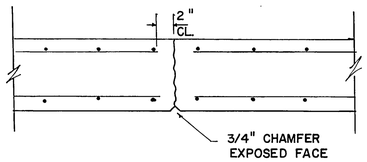
E 6,9 | 8

* NOTE: HEIGHT OF WALL GRADUATES @ 3:1 SLOPE FROM 12'-0" AT CREST OF SPILLWAY TO 4'-6"±. AT INTERSECTION OF STILLING BASIN SIDE WALL. VERTICAL STEEL VARIES SIMILARLY.



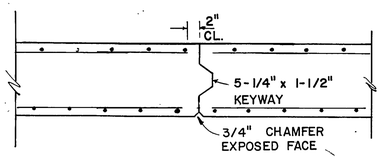
PLAN-WALL EXPANSION JT. DETAIL

N.T.S.



WALL CONTROL JOINT (CJ)

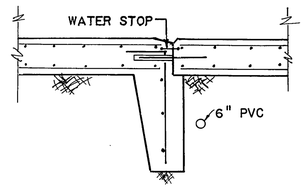
NOT TO SCALE



WALL CONSTRUCTION JOINT DETAIL

N.T.S.

SEE JOINT DETAIL, SHEET NO. 12 FOR REINF.



SECTION

SCALE: 1/2"=1'-0"

A 8 | 8

NOTE:
WALL CONST. JT. MAY BE USED IN LIEU OF CONTROL JT. CONST. JT. PERMITTED ONLY AT CONTROL JT. LOCATION.

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404/432-5634

WATER SYSTEM IMPROVEMENTS
for
FAYETTE COUNTY, GEORGIA

DAM, SPILLWAY, & RESERVOIR

SPILLWAY WALL DETAILS

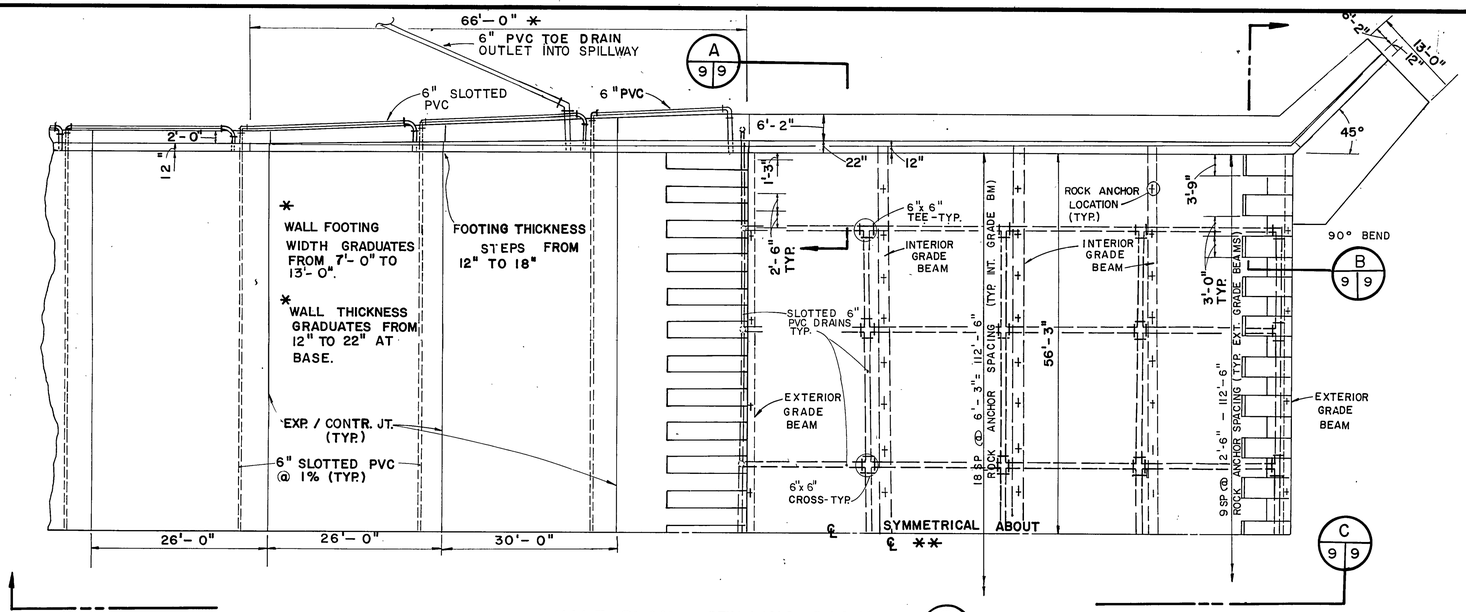
REV. NO.	DATE	DESCRIPTION	BY	APP'D BY
1	12/6/85	UPDATED	SDB	JEM

LAND LOT-
DISTRICT-
COUNTY-
STATE-

DESIGN DWJ
DRAWN LED
CHECK MFL
APPROVED JEM

SCALE AS NOTED
DATE 6/18/84
FILE NO. 83175-2
SHEET NO. 8 OF 22

AF 6318



HALF PLAN — STILLING BASIN

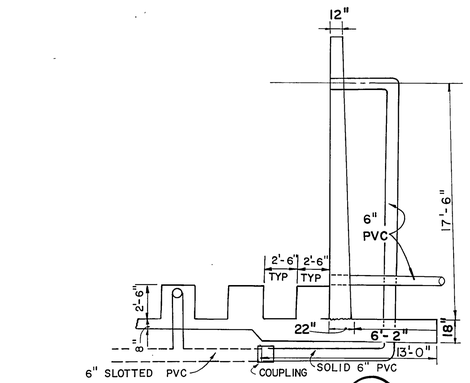
SCALE: 3/32" = 1'-0"

3 / 6 9

NOTE:

In order to reduce rock excavation, and at no additional cost to the owner, the stilling basin may be raised 2 1/2 feet by the contractor, provided that the minimum granular stone fill is utilized beneath the slab. Also, the Rip Rap thickness must be increased to 24" for an area extending 20' from the slab, and then tapered to the required design thickness of 18". This may also necessitate an extension of the existing 48" DIP. The north grade beam must rest at elevation 795.50, even if rock excavation is necessary. The south grade beam must penetrate into the rock a minimum of 12". All other grade beams may rest on rock or stone as required. The total height of side walls must be maintained, and all other details adjusted accordingly.

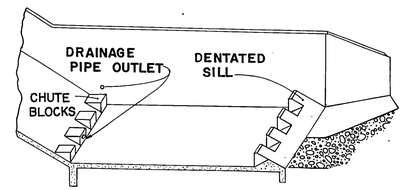
** NOTE: WITH EXCEPTION OF 36" RCP OUTLET & LOW FLOW OUTLET IN DENTATED SILL. SEE SHEET NO. 6



SECTION

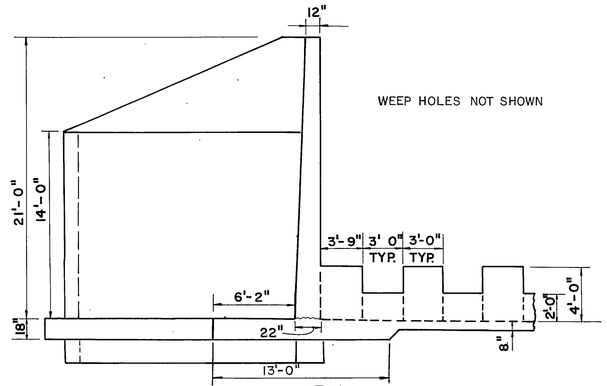
SCALE: 3/16" = 1'-0"

A 9 9



STILLING BASIN ISOMETRIC

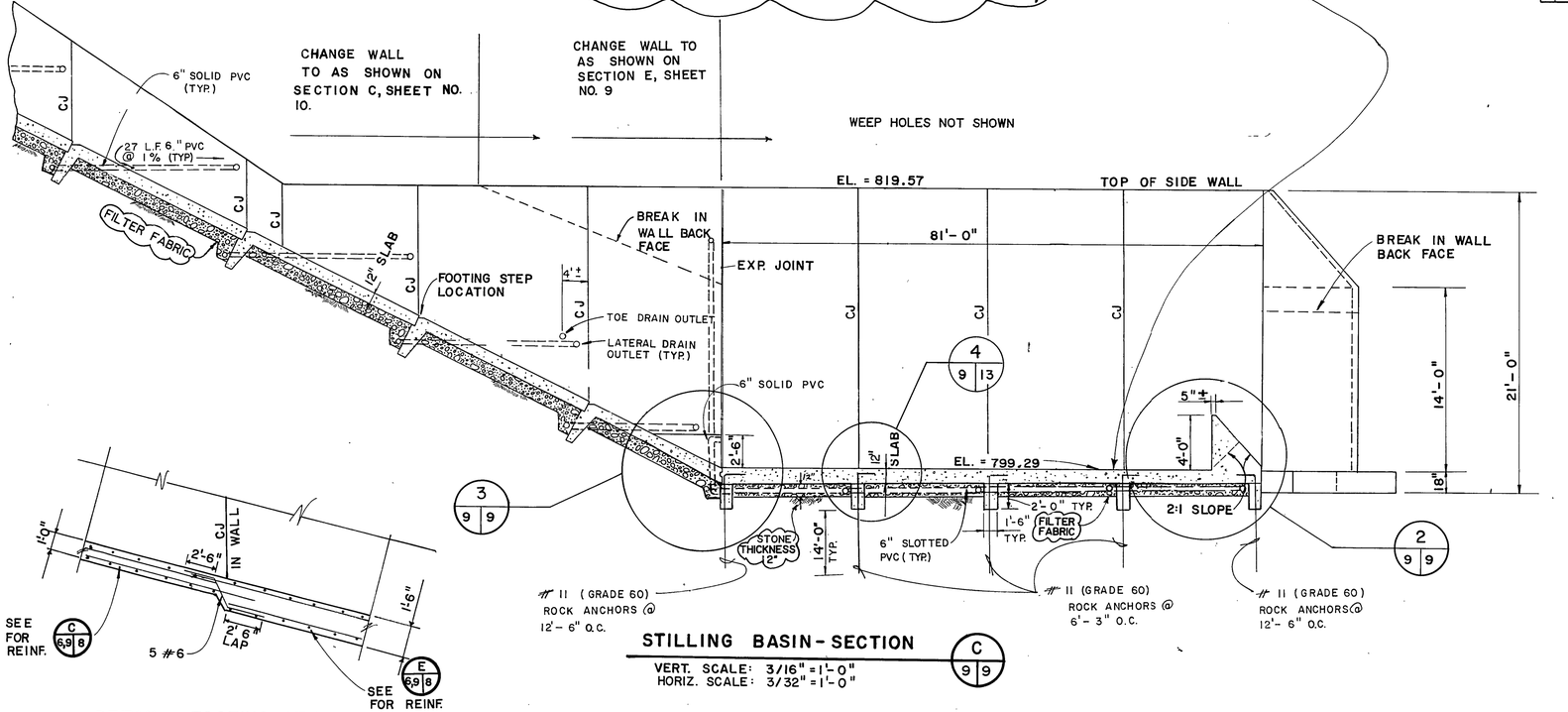
NOT TO SCALE



SECTION

SCALE: 3/16" = 1'-0"

B 9 9



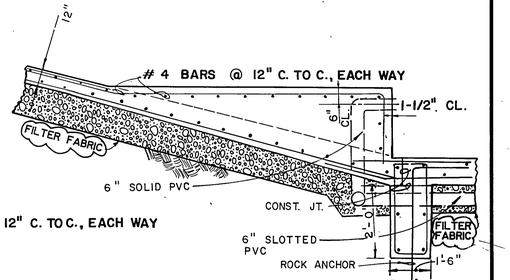
STILLING BASIN - SECTION

VERT. SCALE: 3/16" = 1'-0"
HORIZ. SCALE: 3/32" = 1'-0"

C 9 9

DETAIL - FOOTING STEP

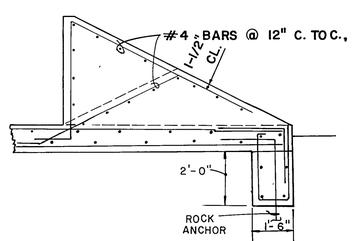
NOT TO SCALE



DETAIL - CHUTE BLOCKS

SCALE: 3/8" = 1'-0"

3 / 9 9



DETAIL - DENTATED SILL

SCALE: 3/8" = 1'-0"

2 / 9 9

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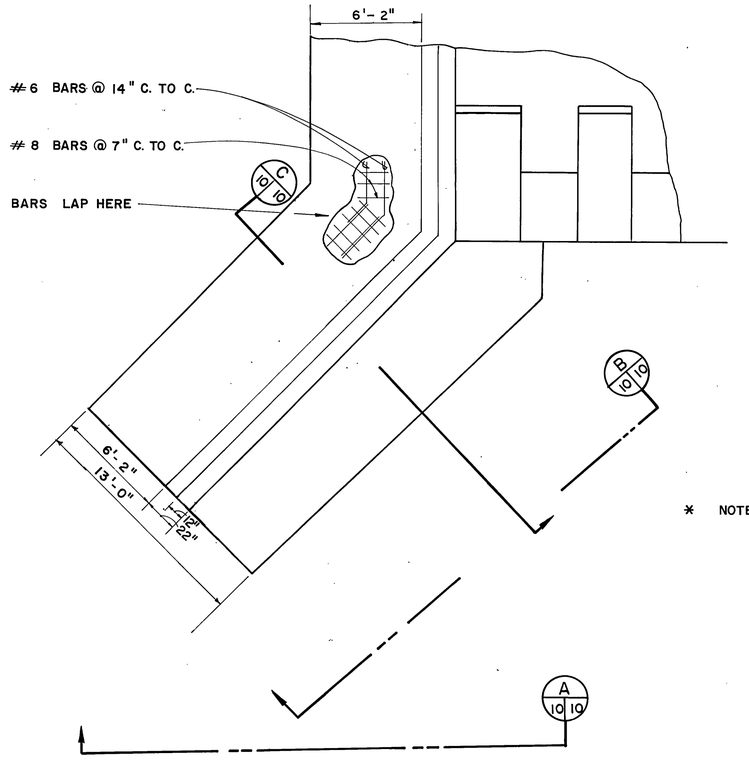
404 / 432-5634

WATER SYSTEM IMPROVEMENTS
for
FAYETTE COUNTY, GEORGIA
DAM, SPILLWAY, & RESERVOIR
STILLING BASIN - PLAN, SECTIONS, & DETAILS

REV. NO.	DATE	DESCRIPTION	BY	APP'D BY
1	12/6/85	UPDATED	SDB	JEM

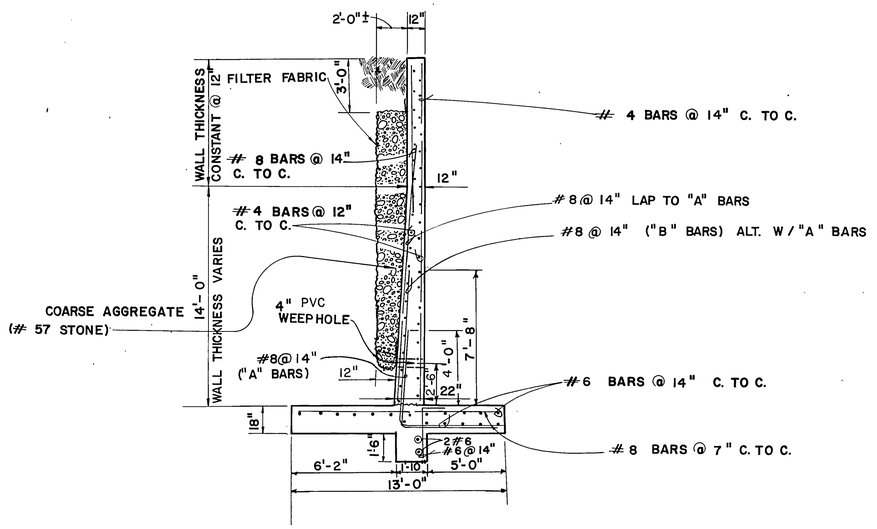
LAND LOT-
DISTRICT-
COUNTY-
STATE-

DESIGN	DWJ
DRAWN	LED
CHECK	MFL
APPROVED	JEM
SCALE	AS NOTED
DATE	6/18/84
FILE NO.	83175-2
SHEET NO.	9 OF 22

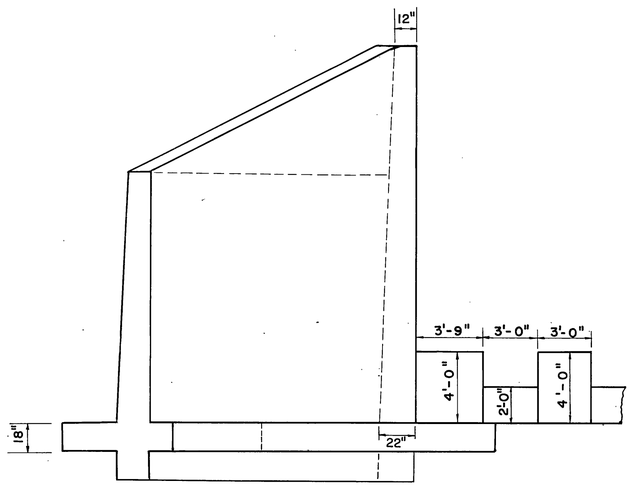


PARTIAL PLAN - EXIT WING WALL
SCALE: 1/4" = 1'-0"

* NOTE: SPLICE SHORTER DOWELS TO CORRESPONDING #9 BAR @ 12" C. TO C.. LONGER DOWELS BECOME PROPORTIONALLY SHORTER AS WALL BECOMES SHORTER.

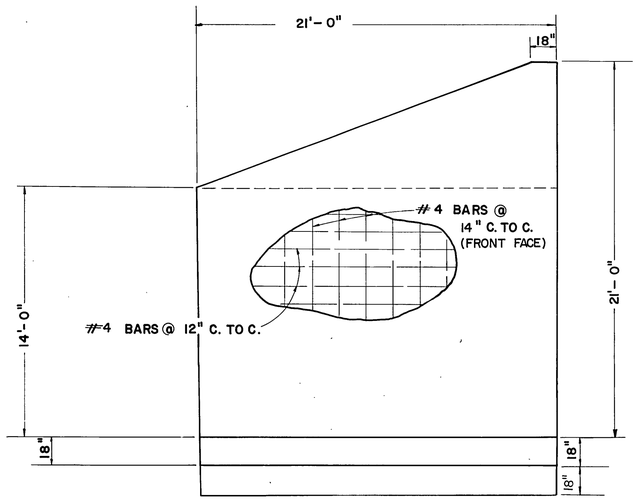


SECTION
SCALE: 1/4" = 1'-0"
C
10 10



PARTIAL ELEVATION - SPILLWAY EXIT
SCALE: 1/4" = 1'-0"
A
10 10

WEEP HOLES NOT SHOWN



SECTION
SCALE: 1/4" = 1'-0"
B
10 10

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404/432-5634

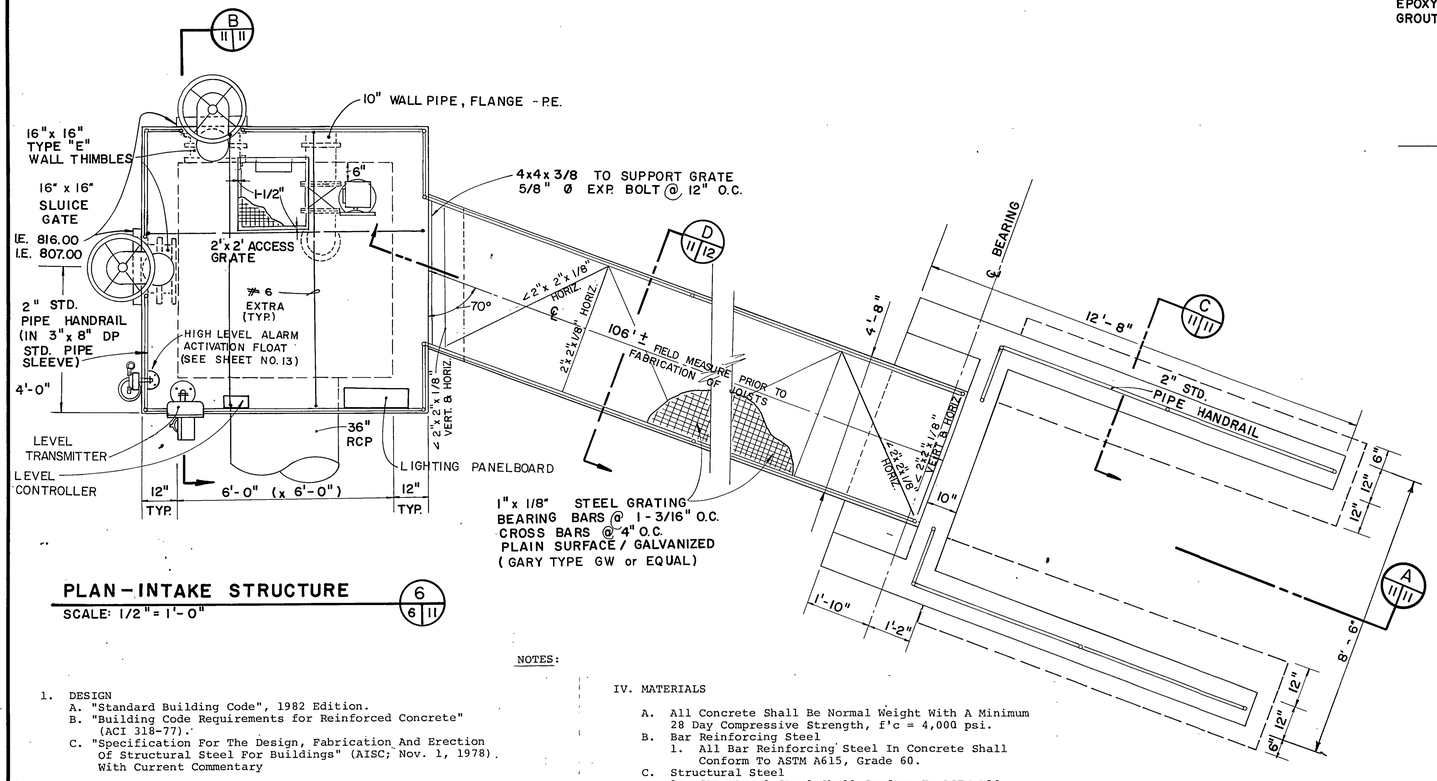
WATER SYSTEM IMPROVEMENTS
for
FAYETTE COUNTY, GEORGIA
DAM, SPILLWAY, & RESERVOIR
OUTLET WING WALL DETAILS

REV. NO.	DATE	DESCRIPTION	BY	APP'D BY
1	12/6/85	UPDATED	SDB	JEM

LAND LOT-
DISTRICT-
COUNTY-
STATE-

DESIGN	DWJ
DRAWN	LED
CHECK	MFL
APPROVED	JEM
SCALE	AS NOTED
DATE	6/18/84
FILE NO.	83175-2
SHEET NO.	10 OF 22

AF 6318



PLAN - INTAKE STRUCTURE

SCALE: 1/2" = 1'-0"

6 | 6 II

NOTES:

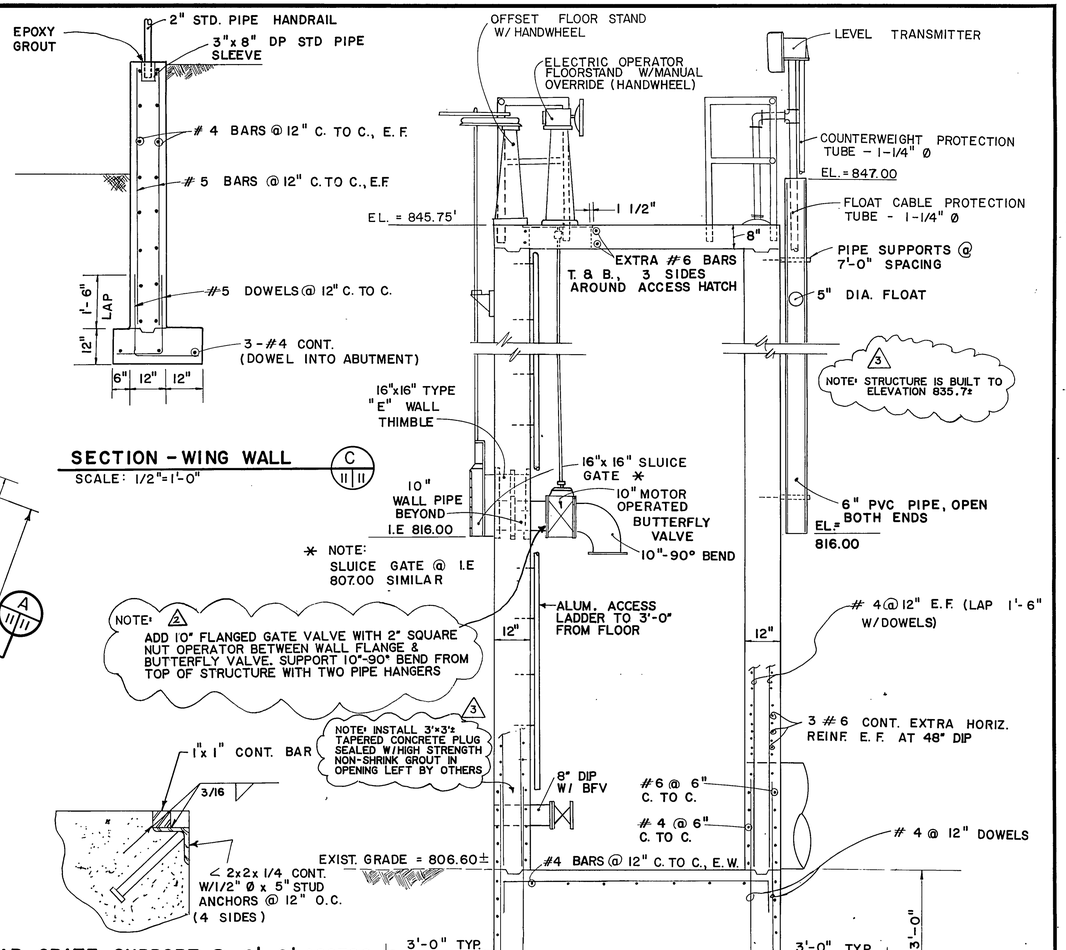
I. DESIGN
- A. "Standard Building Code", 1982 Edition.
- B. "Building Code Requirements for Reinforced Concrete" (ACI 318-77).
- C. "Specification For The Design, Fabrication And Erection Of Structural Steel For Buildings" (AISC, Nov. 1, 1978). With Current Commentary

II. DESIGN LOADS
- A. Live Load . . . . . 50 PSF

III. FOUNDATIONS
- A. Footings Have Been Designed For An Allowable Bearing Pressure of 3,000 PSF.
- B. All Footing Excavations Shall Be Inspected By A Qualified Geotechnical Engineer To Verify That The Required Bearing Capacity Is Available. If Any Portion Of The Footing Is Found To Occur In An Unsuitable Or Unstable Soil, The Engineer Shall Be Notified.

IV. MATERIALS
- A. All Concrete Shall Be Normal Weight With A Minimum 28 Day Compressive Strength, f'c = 4,000 psi.
- B. Bar Reinforcing Steel
  1. All Bar Reinforcing Steel In Concrete Shall Conform To ASTM A615, Grade 60.
- C. Structural Steel
  1. Structural Steel Shall Conform To ASTM A36.
  2. All Welding Shall Be As Per AWS Specifications, Utilizing E70XX Electrodes.
  3. All Anchor Bolts Shall Conform to ASTM A307.
- D. Deep Longspan Steel Joists Shall Conform to SJI Standard Specifications.

V. MISCELLANEOUS
- A. All Lap Splice Length Not Shown On The Plans Shall Be Class 'B' In Conformance With ACI 318-77.
- B. Contractor Shall Verify The Type, Size, Location And Number Of Openings, Sleeves, Pipes, Conduits, Embedded Items, ETC., Before Pouring Concrete.



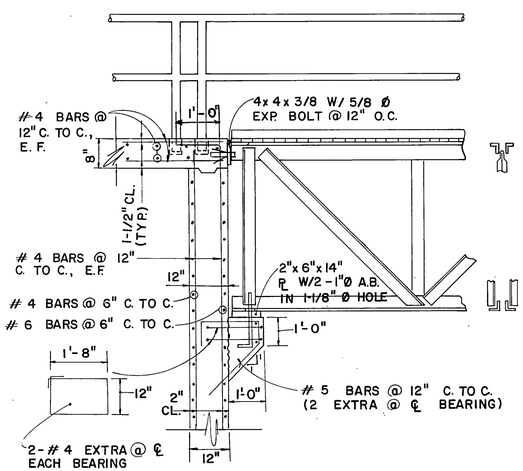
SECTION - WING WALL

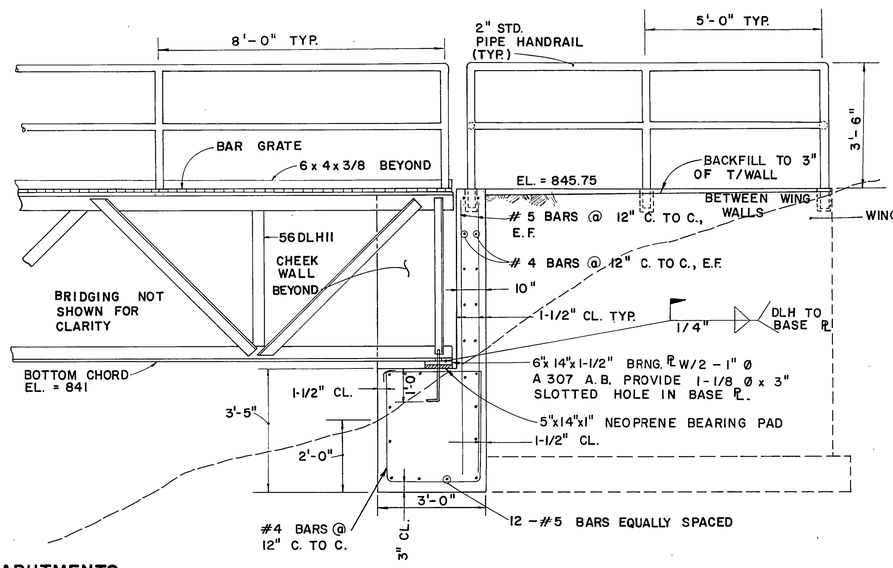
C | II | II

SCALE: 1/2"= 1'-0"

BAR GRATE SUPPORT @ 2'x 2' ACCESS

NOT TO SCALE





SECTION - ACCESS WALKWAY & ABUTMENTS

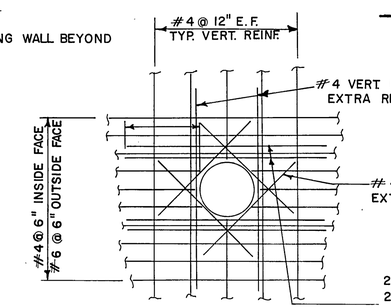
A | II | III

SCALE: 1/2" = 1'-0"

SECTION - INTAKE STRUCTURE

B | II | III

SCALE: 1/2" = 1'-0"



TYP. DETAIL - EXTRA REINF. @ PIPE SLEEVES

NOT TO SCALE

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404 / 432-5634

WATER SYSTEM IMPROVEMENTS
for
FAYETTE COUNTY, GEORGIA

DAM, SPILLWAY, & RESERVOIR

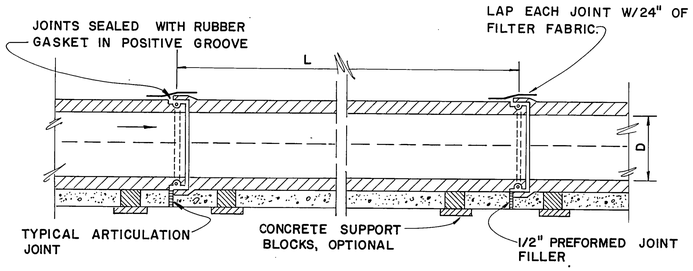
INTAKE STRUCTURE PLAN, ELEVATIONS, & DETAILS

REV. NO.	DATE	DESCRIPTION	BY	APP'D BY
3	12/6/85	UPDATED	SDB	JEM
2	5/21/85	ADD GATE VALVE	SDB	JEM
1	2/14/85	ADDENDUM NO. 1	SDB	JEM

LAND LOT-
DISTRICT-
COUNTY-
STATE-

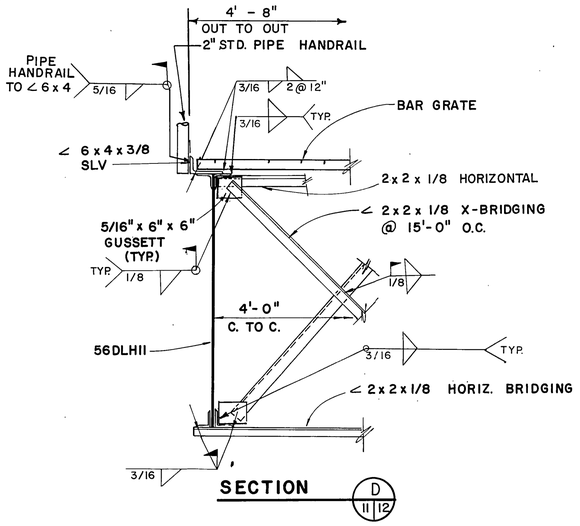
DESIGN DWJ
DRAWN LED
CHECK MFL
APPROVED JEM
SCALE AS NOTED
DATE 6/18/84
FILE NO. 83175-2
SHEET NO. 11 OF 22

AF 6318

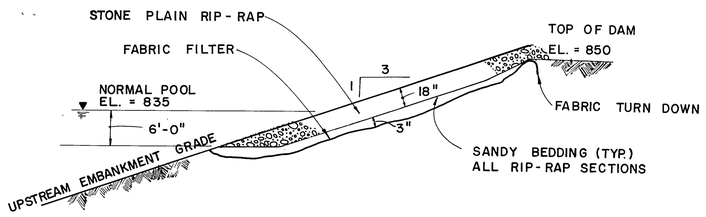


DETAIL - 48" D.I. PIPE CONDUIT ⊛

N.T.S.

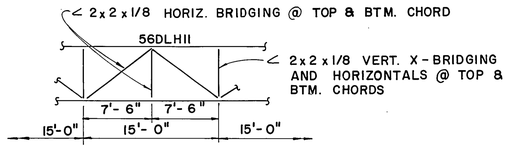


SECTION D 11 12



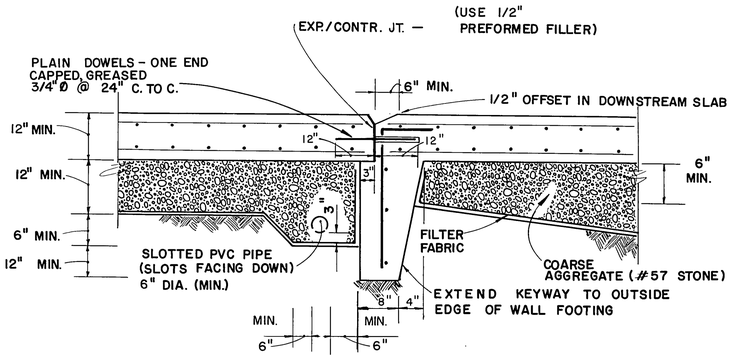
UPSTREAM RIP-RAP SLOPE PROTECTION DETAIL

N.T.S.



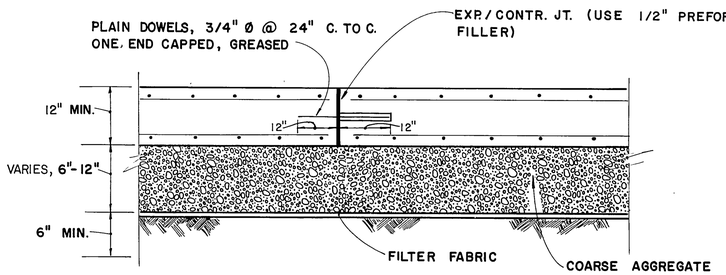
FRAMING ACCESS WALKWAY

N.T.S.



DETAIL - LATERAL EXPANSION/CONTRACTION JOINT

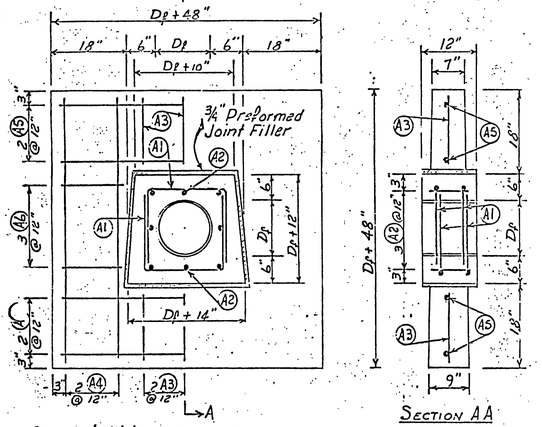
N. T. S.



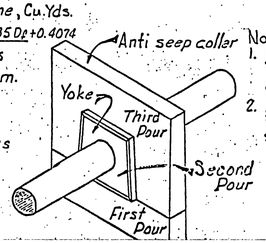
DETAIL - LONGITUDINAL EXPANSION/CONTRACTION JOINT

N. T. S.

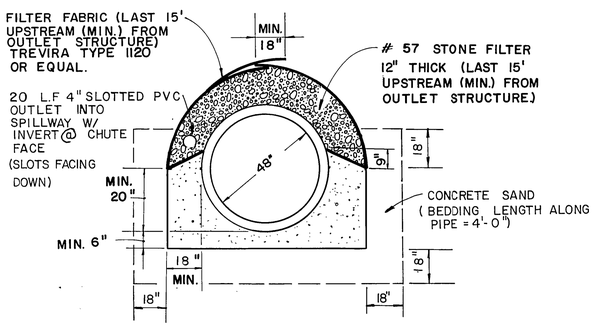
Details of Anti-Seep Collar and Yoke for Malleable and Ductile Iron Pipe



Concrete Volume, Cu.Yds.
$=0.00024\,D_f^2+0.0185\,D_f+0.4074$
Where D_f equals the Outside Diam. of the Pipe in inches.
For pipe sizes 6 in. to 15 in.

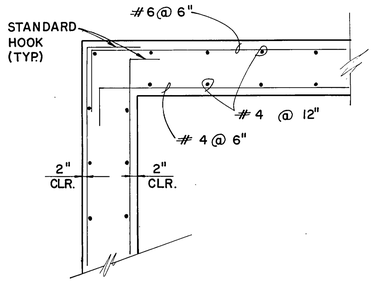


Note:
1. Reinforcing steel is symmetrical about centerline
2. All reinforcing steel is to be size 4 bars.



DETAIL ⊛ CONCRETE CRADLE & COLLAR DRAIN

N.T.S.



DETAIL - TYPICAL CORNER REINFORCEMENT INTAKE STRUCTURE

N. T. S.

⚠ ⊛ THESE DETAILS HAVE MODIFIED FOR 48" D.I.P. AND ARE INSTALLED AS OF THE DATE OF THIS REVISION EXCEPT FOR FILTER FABRIC & #57 STONE FOR LAST 15' WHICH WILL BE INSTALLED AS PART OF THIS CONTRACT.

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404/432-5634

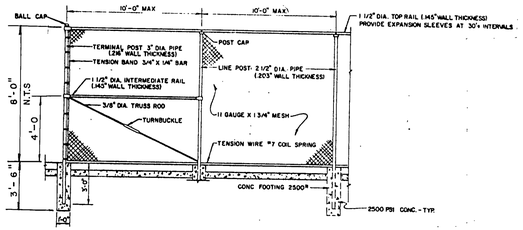
WATER SYSTEM IMPROVEMENTS
FAYETTE COUNTY, GEORGIA
DAM, SPILLWAY, & RESERVOIR
MISCELLANEOUS DETAILS

REV. NO.	DATE	DESCRIPTION	BY	APP'D BY
1	12/6/85	UPDATED	SDB	JEM

LAND LOT-
DISTRICT-
COUNTY-
STATE-

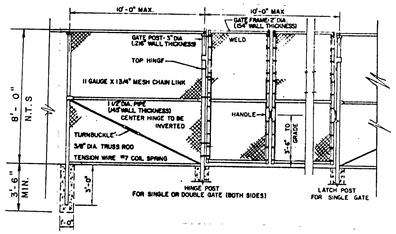
DESIGN MAI	SCALE AS NOTED
DRAWN LED	DATE 6/18/84
CHECK MFL	FILE NO. 83175-2
APPROVED JEM	SHEET NO. 12 OF 22

AF 8318



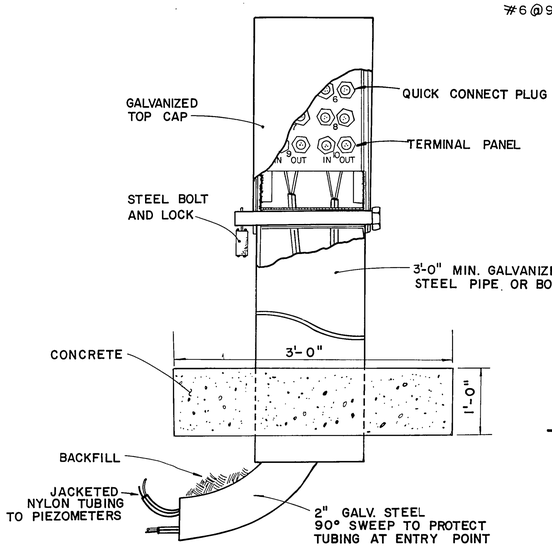
ELEVATION OF TYPICAL FENCE

SCALE: 3/16" = 1'-0"



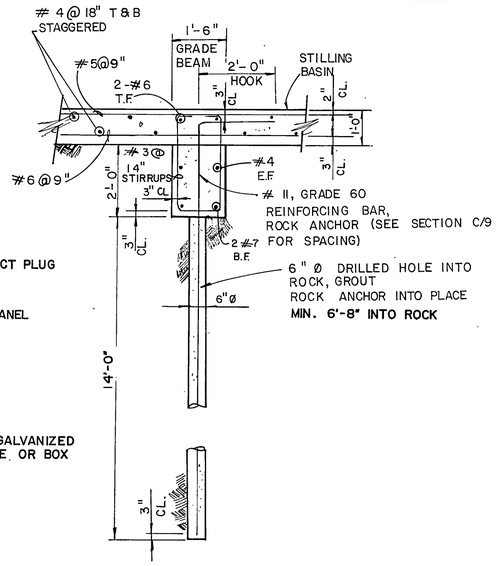
ELEVATION OF TYPICAL GATE

SCALE: 3/16"= 1'-0"



DETAIL – PORE PRESSURE TERMINAL PIPES

NOT TO SCALE

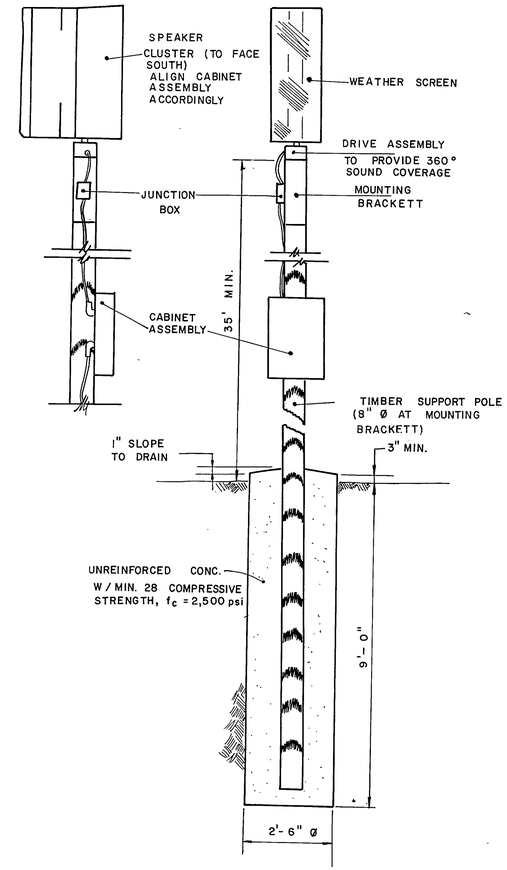


DETAIL – TYP. ROCK ANCHOR

SCALE: 1/2"= 1'-0"

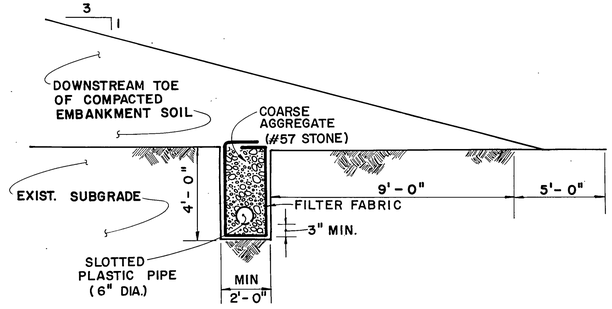
4 / 9 | 13

WHELEN WS-3000 (OR EQUAL)



DETAIL – HIGH LEVEL ALARM SIREN & SUPPORT FOUNDATION

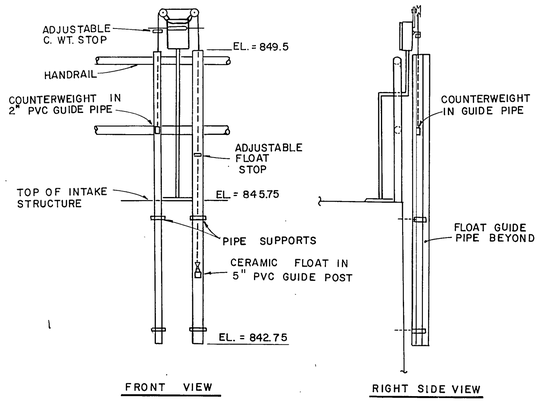
N.T.S.



ROCK FILL TOE DRAIN

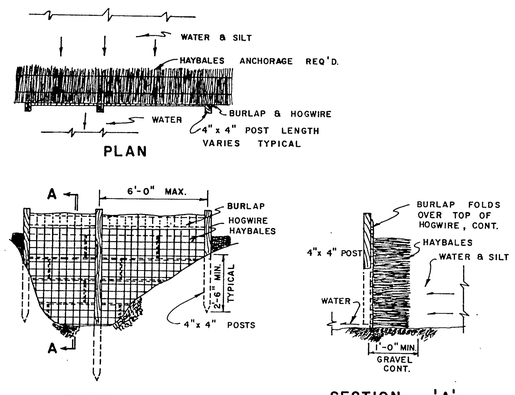
N. T. S.

2 / 5 | 13



HIGH LEVEL SIREN ACTIVATION FLOAT

N.T.S.



EROSION CONTROL DETAILS

N.T.S.

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404/432-5634

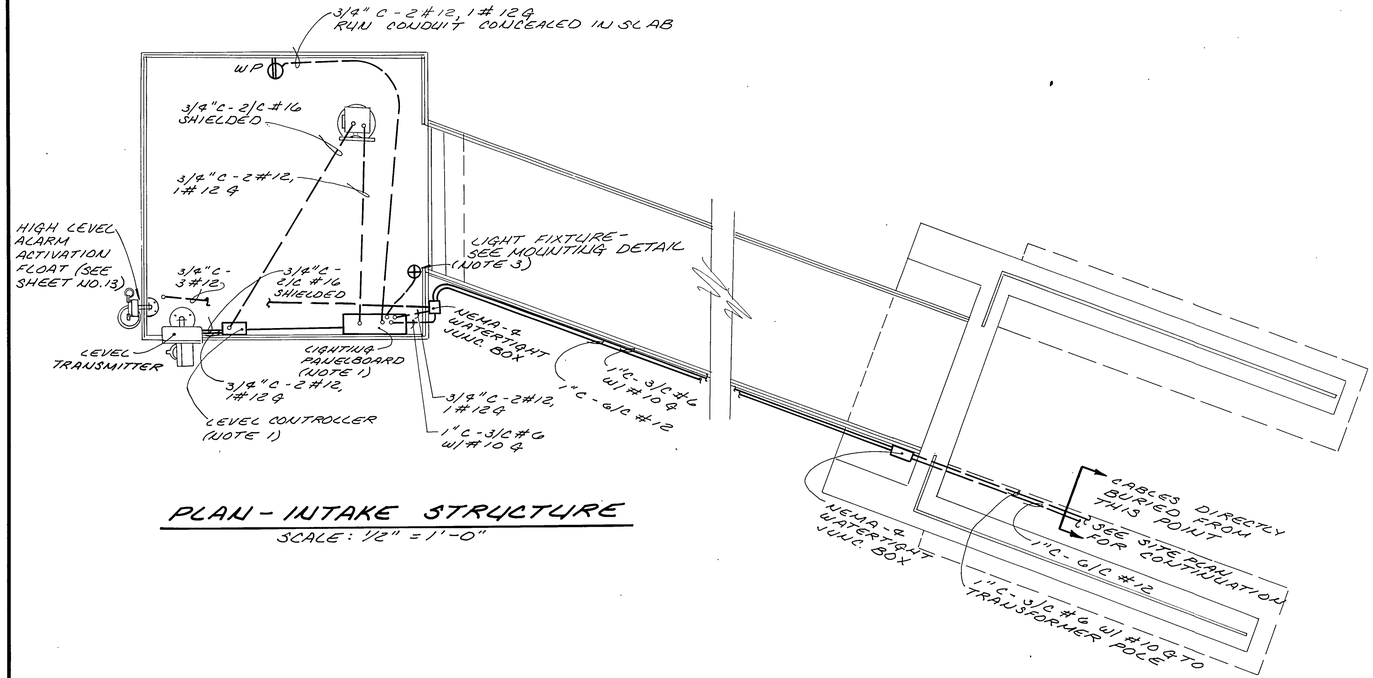
WATER SYSTEM IMPROVEMENTS
FAYETTE COUNTY, GEORGIA
DAM, SPILLWAY, & RESERVOIR

REV. NO.	DATE	DESCRIPTION	BY	APP'D BY
1	12/6/85	UPDATED	SDB	JEM

LAND LOT-
DISTRICT-
COUNTY-
STATE-

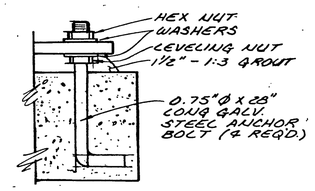
DESIGN	MAI
DRAWN	LED
CHECK	MFL
APPROVED	JEM
SCALE	AS NOTED
DATE	6/18/84
FILE NO.	83175-2
SHEET NO.	13 OF 22

KF 33506A



PLAN - INTAKE STRUCTURE

SCALE: 1/2" = 1'-0"



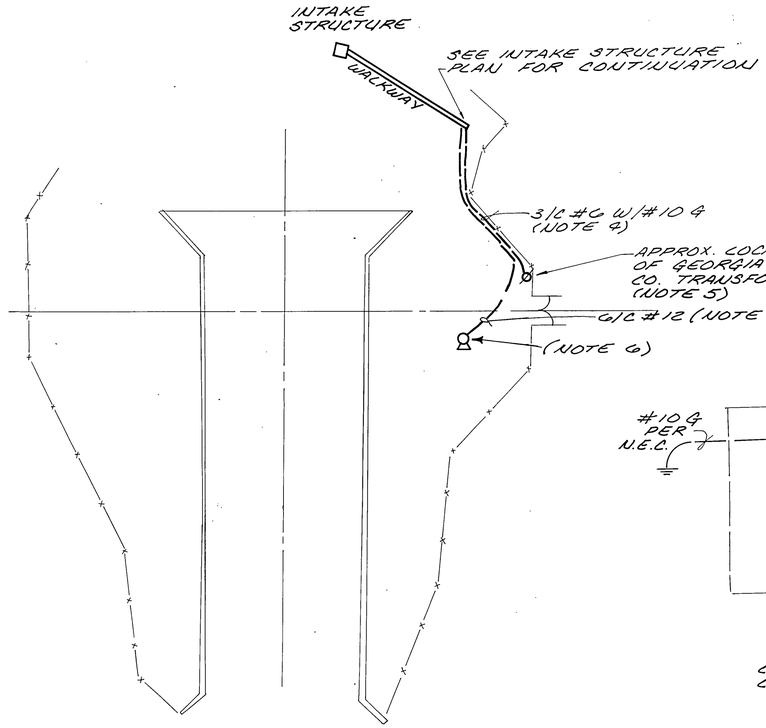
MOUNTING DETAIL LIGHT POLE

N.T.S.

NOTES:

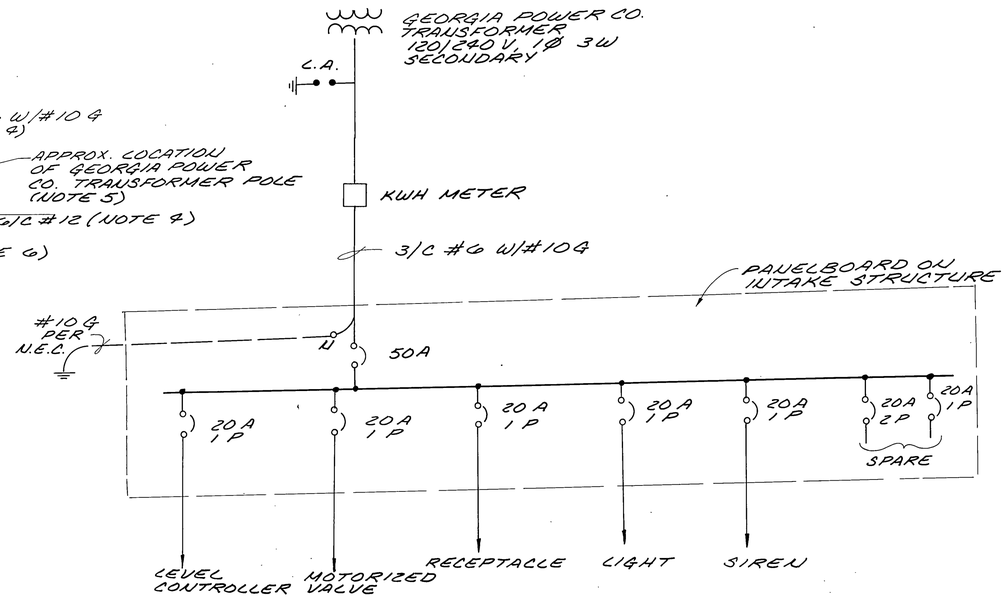
1. Lighting Panelboard Shall Be In NEMA-3R Weatherproof Enclosure For Outdoor Use And Shall Be U.L. Listed For Service Entrance. Mount Level Controller And Lighting Panelboard On Handrail Using Unistruts. Refer To This Sheet For Single Line Diagram.
2. Splice Level Switch Wires (3 # 12) And 120 Volt Circuit Wires (2 # 12, 1 # 12G) Into The Direct Burial 6/C #12 Cable.
3. Contractor To Furnish And Install Pole Mounted Light Fixture, 150 Watt High Pressure Sodium, 10' Round Steel Pole, 120 V Ballast, & Photocontrol.

   Luminaire: McGraw Edison Cat. #TS-4283-9R
   Pole: SPI Cat. #RSM-10-3 With 3" O.D. Tenon
4. Direct Burial Cables Shall Be U.L. Listed For Direct Burial.
5. Provide A Conduit Riser Up The Pole And Provide A 3-Hole Weatherhead. Install & Connect A 600 Volt 2-Pole Lightning Arrester On The Pole.
6. Provide A Conduit Riser To The Siren Control Cabinet. Route The Direct Burial Cable In The Conduit And Connect Per Siren Manufacturer's Drawings.



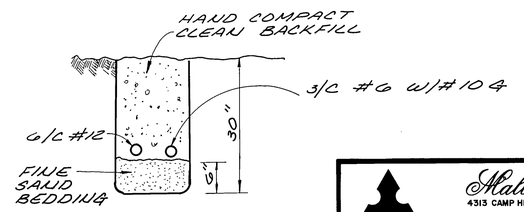
ELECTRICAL SITE PLAN

SCALE: 1" = 50'



SINGLE LINE DIAGRAM

N.T.S.



DETAIL - DIRECT BURIAL CABLE

N.T.S.

Mallett & Associates
4513 CAMP HIGHLAND RD. SMYRNA, GEORGIA 30080
404/432-5634

WATER SYSTEM IMPROVEMENTS
for
FAYETTE COUNTY GEORGIA

ELECTRICAL DIAGRAM

REV. NO.	DATE	DESCRIPTION	BY	APP'D BY
1	12/6/85	UPDATED	SDB	JEM

LAND LOT-
DISTRICT-
COUNTY-
STATE-

DESIGN: BK
DRAWN: LED
CHECK: MFL
APPROVED: JEM
SCALE: AS NOTED
DATE: 6/18/84
FILE NO.: 83175-1
SHEET NO.: 14 OF 22

BUILDING TRUST

PRODUCT DATA SHEET

Sikaflex®-1A

Elastomeric joint sealant / adhesive

PRODUCT DESCRIPTION

Sikaflex®-1A is a premium-grade, high-performance, moisture-cured, 1-component, polyurethane-based, non-sag elastomeric sealant. Sikaflex-1a can be used in green and damp concrete applications. Meets Federal Specification TT-S-00230C, Type II, Class A. Meets ASTM C-920, Type S, Grade NS, Class 35, use T, NT, O, M, G, I, A. Canadian standard CAN/CGSB 19.13-M87.

USES

- Designed for all types of joints where maximum depth of sealant will not exceed 1/2 in.
- Excellent for small joints and fillets, windows, door frames, reglets, flashing, common roofing detail applictions, and many construction adhesive applications.
- Suitable for vertical and horizontal joints; readily placeable at 40°F
- Has many applications as an elastic adhesive between materials with dissimilar coefficients of expansion.
- Submerged conditions, such as canal and reservoir joints.

CHARACTERISTICS / ADVANTAGES

- Eliminates time, effort, and equipment for mixing, filling cartridges, pre-heating or thawing, and cleaning of equipment.
- Fast tack-free and final cure times.
- High elasticity - cures to a tough, durable, flexible consistency with exceptional cut and tear -resistance.
- Stress relaxation.
- Excellent adhesion - bonds to most construction materials without a primer.
- Excellent resistance to aging, weathering.
- Proven in tough climates around the world.
- Can be applied to green concrete 24 hours after pour
- Can be applied to damp concrete 1 hour after getting wet
- Odorless, non-staining.
- Jet fuel resistant.
- Certified to the NSF/ANSI Standard 61 for potable water.
- Urethane-based; suggested by EPA for radon reduction.
- Paintable with water-, oil- and rubber-based paints.
- Capable of ±35% joint movement.

APPROVALS / STANDARDS

- ASTM C 920, Type S, Grade NS, Class 35, use NT, A, M
- Federal specification TT-S-00230 C Type II, Class A
- Canadian Standard CANICGSB 19.13-M87
- Certified to NSF/ANSI standard 61 for portable water

PRODUCT INFORMATION

Packaging	10.1 fl. oz. (300 mL) Cartridge, 20 fl. oz. uni-pac Sausages, 4.5 gal (17 L) in a 5 gal pail, 52 gal (197 L) in a 55 gal drum
Color	White, colonial white, aluminum gray, limestone, black, dark bronze, capitol tan, stone and medium bronze. Special architectural colors on request.
Shelf Life	**Cartridge and Sausage**: 12 months in original, unopened packaging. **Pail and Drum**: 6 months in original, unopened packaging.
Storage Conditions	Store at 40°-95°F (4°-35°C).

TECHNICAL INFORMATION

Shore A Hardness	(21 day) 45±5		(ASTM C 661)
Tensile Stress at Specified Elongation	21 day Tensile Stress	175 psi (1.21 MPa)	(ASTM D 412)
	Stress @ 100%	85 psi (0,59 N/mm²)	
Elongation at Break	550 %		(ASTM D-412)

Adhesion in Peel (ASTM C-794) (TT-S-00230C)

Substrate	Peel Strength	Adhesion loss
Concrete	20 lbs	0 %
Aluminium	20 lbs	0 %
Glass	20 lbs	0 %

Tear Strength	55 lb./in.	(ASTM D-624)
Movement Capability	±35 %	(ASTM C-719)
Chemical Resistance	Good resistance to water, diluted acids, and diluted alkalines. Consult Technical Service for specific data.	
Resistance to Weathering	Excellent	
Service Temperature	–40 °F to +170 °F	

APPLICATION INFORMATION

Coverage

10.1 oz Cartridge: Yield in Linear Feet

Width/Depth	1/4"	3/8"	1/2"
1/4"	24.3		
3/8"	16.2	10.8	
1/2"	12.1	8.1	6.1
3/4"	8.1	5.4	4.0
1"			3.0
1.25"			2.4
1.5"			2.0

20 oz Sausage: Yield in Linear Feet

Width/Depth	1/4"	3/8"	1/2"
1/4"	48.1		
3/8"	32.1	21.4	
1/2"	24.1	16.0	12.0
3/4"	16.0	10.7	8.0
1"			6.0
1.25"			4.8
1.5"			4.0

1 gallon: Yield in Linear Feet

Width/Depth	1/4"	3/8"	1/2"
1/4"	307.9		
3/8"	205.3	136.8	
1/2"	153.9	102.6	77.0
3/4"	102.6	68.4	51.3
1"			38.5
1.25"			30.8
1.5"			25.7

Cure Time	Final cure: 4 to 7 days
Curing Rate	Tack-free time 3 to 6 hours Tack-free to touch 3 hours

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Product Conditioning: Condition material to 65°-75°F before using.

Clean all surfaces. Joint walls must be sound, clean, frost-free, and free of oil and grease. Curing compound residues and any other foreign matter must be thoroughly removed. A roughened surface will also enhance bond. Install bond breaker tape or backer rod to prevent bond at base of joint. Priming is not usually necessary. Most substrates only require priming if testing indicates a need or where sealant will be subjected to water immersion after cure.

For green concrete applications control joints must be cut 8 hours prior to sealant installation and in expansion joint forms must be removed 4 hours prior to sealant installation. For wet concrete applications all excess or standing water must be displaced and concrete must then dry for a minimum of 60 min prior to sealant installation. Consult Sikaflex Primer Technical Data Sheet or Technical Service for additional information on priming.

APPLICATION METHOD / TOOLS

Recommended application temperatures: 40°-100°F. For cold weather application, condition units at approximately 70°F; remove prior to using. For best performance, Sikaflex-1a should be gunned into joint when joint slot is at mid-point of its designed expansion and contraction. Place nozzle of gun into bottom of the joint and fill entire joint. Keep the nozzle in the sealant, continue on with a steady flow of sealant preceding the nozzle to avoid air entrapment. Avoid overlapping of sealant to eliminate entrapment of air.

Sikaflex-1a can be applied on green concrete after the concrete has cured for a minimum of 24 hours at 75°F.Control joints must be cut and open for min of 8 hours prior to application. Expansion joints must have forms removed a minimum of 4 hours prior to application. For damp concrete applications Sikaflex-1a can be applied 60 minutes after any and all water has been displaced.

Tooling & Finishing

Tool sealant to ensure full contact with joint walls and remove air entrapment. Joint dimension should allow for 1/4 inch minimum and 1/2 inch maximum thickness for sealant. Proper design is 2:1 width to depth ratio, For use in horizontal joints in traffic areas, the absolute minimum depth of the sealant is 1/2 in. and closed cell backer rod is recommended.

Removal

Use personal protective equipment (chemical resistant gloves/goggles/clothing). Without direct contact, remove spilled or excess product and placed in suitable sealed container. Dispose of excess product and container in accordance with applicable environmental regulations.

Over Painting

Allow 1-week cure at standard conditions when using Sikaflex-1a in total water immersion situations and prior to painting.

CLEANING OF TOOLS

Clean all tools and application equipment with Sika® Remover-208 immediately after use. Hardened material can only be removed mechanically.
For cleaning skin use Sika® Cleaning Wipes-100.

AVAILABILITY/WARRANTY

- Pre-treatment Sealing and Bonding Chart
- Method Statement: Joint Sealing
- Method Statement: Joint Maintenance, Cleaning and Renovation
- Technical Manual: Facade Sealing

LIMITATIONS

- Allow 1 week cure at standard conditions when using Sikaflex-1a in total water immersion situations.
- When overcoating with water, oil and rubber based paints, compatibility and adhesion testing is essential.
- Sealant should be allowed to cure for 7 days prior to overcoating
- Avoid exposure to high levels of chlorine. (Maximum continuous level is 5 ppm of chlorine.)
- Maximum depth of sealant must not exceed 1/2 in.; minimum depth is 1/4 in.
- Maximum expansion and contraction should not exceed 35% of average joint width.
- Do not cure in the presence of curing silicone sealants.
- Avoid contact with alcohol and other solvent cleaners during cure.
- Do not apply when moisture-vapor-transmission condition exists from the substrate as this can cause bubbling within the sealant.
- Use opened cartridges and uni-pac sausages the same day.
- When applying sealant, avoid air-entrapment.
- Since system is moisture-cured, permit sufficient exposure to air.
- White color tends to yellow slightly when exposed to ultraviolet rays.
- Light colors can yellow if exposed to direct gas fired heating element.
- The ultimate performance of Sikaflex-1a depends on good joint design and proper application with joint surfaces properly prepared.
- The depth of sealant in horizontal joints subject to traffic is 1/2 in.
- Do not tool with detergent or soap solutions.
- Do not use in contact with bituminous/asphaltic materials.
- In green concrete applications sealing joints in poor or low strength concrete 24 hours after pour may impact ability of sealant to gain proper adhesion.
- In damp concrete applications all standing water and excess water must be eliminated prior to the 60 minute waiting time.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

LEGAL DISCLAIMER

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- **KEEP OUT OF REACH OF CHILDREN**
- **NOT FOR INTERNAL CONSUMPTION**
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Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates (“SIKA”), the user must always read and follow the warnings and instructions on the product’s most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA’s Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the

current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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BUILDING TRUST

PRODUCT DATA SHEET

Sikaflex®-1A

Elastomeric joint sealant / adhesive

PRODUCT DESCRIPTION

Sikaflex®-1A is a premium-grade, high-performance, moisture-cured, 1-component, polyurethane-based, non-sag elastomeric sealant. Sikaflex-1a can be used in green and damp concrete applications. Meets Federal Specification TT-S-00230C, Type II, Class A. Meets ASTM C-920, Type S, Grade NS, Class 35, use T, NT, O, M, G, I, A. Canadian standard CAN/CGSB 19.13-M87.

USES

- Designed for all types of joints where maximum depth of sealant will not exceed 1/2 in.
- Excellent for small joints and fillets, windows, door frames, reglets, flashing, common roofing detail applictions, and many construction adhesive applications.
- Suitable for vertical and horizontal joints; readily placeable at 40°F
- Has many applications as an elastic adhesive between materials with dissimilar coefficients of expansion.
- Submerged conditions, such as canal and reservoir joints.

CHARACTERISTICS / ADVANTAGES

- Eliminates time, effort, and equipment for mixing, filling cartridges, pre-heating or thawing, and cleaning of equipment.
- Fast tack-free and final cure times.
- High elasticity - cures to a tough, durable, flexible consistency with exceptional cut and tear -resistance.
- Stress relaxation.
- Excellent adhesion - bonds to most construction materials without a primer.
- Excellent resistance to aging, weathering.
- Proven in tough climates around the world.
- Can be applied to green concrete 24 hours after pour
- Can be applied to damp concrete 1 hour after getting wet
- Odorless, non-staining.
- Jet fuel resistant.
- Certified to the NSF/ANSI Standard 61 for potable water.
- Urethane-based; suggested by EPA for radon reduction.
- Paintable with water-, oil- and rubber-based paints.
- Capable of ±35% joint movement.

APPROVALS / STANDARDS

- ASTM C 920, Type S, Grade NS, Class 35, use NT, A, M
- Federal specification TT-S-00230 C Type II, Class A
- Canadian Standard CANICGSB 19.13-M87
- Certified to NSF/ANSI standard 61 for portable water

PRODUCT INFORMATION

Packaging	10.1 fl. oz. (300 mL) Cartridge, 20 fl. oz. uni-pac Sausages, 4.5 gal (17 L) in a 5 gal pail, 52 gal (197 L) in a 55 gal drum
Color	White, colonial white, aluminum gray, limestone, black, dark bronze, capitol tan, stone and medium bronze. Special architectural colors on request.
Shelf Life	**Cartridge and Sausage**: 12 months in original, unopened packaging. **Pail and Drum**: 6 months in original, unopened packaging.
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Shore A Hardness	(21 day) 45±5		(ASTM C 661)
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current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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